

Instruction Manual

DVD-R157













www.samsung.com AK68-01315A-02

Getting Started

Warning

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER(OR BACK). NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.





This symbol indicates that dangerous voltage consisting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

Do not install this equipment in a confined space such as a bookcase or similar unit.

WARNING: To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

CAUTION: DVD RECORDERS USE AN INVISIBLE LASER BEAM WHICH CAN CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE RECORDER CORRECTLY AS INSTRUCTED.

CAUTION

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR
PERFORMANCE OF PROCEDURES OTHER THAN
THOSE SPECIFIED HEREIN MAY RESULT IN
HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR
YOURSELF. REFER SERVICING TO QUALIFIED
PERSONNEL.

CAUTIONS

Caution: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

Attention: Pour éviter les chocs électriques, introduíre la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu au fond.

This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances, such as radios and televisions, use shielded cables and connectors for connections.

FCC NOTE (for U.S.A):

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: FCC regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.



- This unit can be used only where the power supply is AC 120V, 60Hz. It cannot be used elsewhere.
- This DVD Recorder is designed and manufactured to respond to the Region Management Information. If the Region number of a DVD disc does not correspond to the Region number of this DVD Recorder, the DVD Recorder cannot play the disc.
- This device is protected by U.S. Patent Nos.4,631,60 3;4,577,216;4,819,098;4,907,093; and 6,516,132. This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.
- This product is covered by one or more of the following U.S. patents: 5,060,220 5,457,669 5,561,649 5,705,762 5,987,417 6,043,912 6,222,983 6,272,096 6,377,524 6,377,531 6,385,587 6,389,570 6,408,408 6,466,532 6,473,736 6,477,501 6,480,829 6,556,520 6,556,521 6,556,522 6,578,163 6,594,208 6,631,110 6,658,588 6,674,697 6,674,957 6,687,455 6,697,307 6,707,985 6,721,243 6,721,493 6,728,474 6,741,535 6,744,713 6,744,972 6,765,853 6,765,853 6,771,890 6,771,891 6,775,465 6,778,755 6,788,629 6,788,630 6,795,637 6,810,201 6,862,256 6,868,054 6,894,963 6,937,552

DANGER - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN.
AVOID DIRECT EXPOSURE TO BEAM.
CAUTION - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN.

 VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.

ATTENTION — RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE.

EXPOSITION DANGEREUSE AU FAISCEAU.

ADVARSEL – SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING.

UNDGÅ UDSÆTTELSE FOR STRÅLING.

VARO! – AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN

LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

VARNING – SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL
ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.

ADVARSEL – SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES

UNNGÅ EKSPONERING FOR STRÅLEN.

SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG
GEÖFFNET. NICHT DEM STRAHL LUSSETZEN.

注意 - 打开时有可见及不可见激光辐射・避免激光束照射・ 注意 - ここを開くと可視及び不可視のレーザー光が出ます。 ビームを直接見たり、触れたりしないでください。

English - 2

Precaution

Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with a dry cloth.
- 7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A groundingtype plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Service is required when the apparatus has been damaged in any way, such as the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus. Service is also required if the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Handling Cautions

- Before connecting other components to this recorder, be sure to turn them all off.
- Do not move the recorder while a disc is being played, or the disc may be scratched or broken, and the recorder's internal parts may be damaged.
- Do not put a flower vase filled with water or any small metal objects on the recorder.
- Be careful not to put your hand into the disc tray.
- Do not place anything other than the disc in the disc tray.

- Exterior interference such as lightning and static electricity can affect normal operation of this recorder.
 If this occurs, turn the recorder off and on again with the POWER button, or disconnect and then reconnect the AC power cord to the AC power outlet.
 - The recorder will operate normally.
- Be sure to remove the disc and turn off the recorder after use.
- Disconnect the AC power cord from the AC outlet when you don't intend to use the recorder for long periods of time.
- Clean the disc by wiping in a straight line from the inside to the outside of the disc.
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.

Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet.

- Do not use benzene, thinner, or other solvents for cleaning.
- · Wipe the cabinet with a soft cloth.

Disc Handling

 Use discs with regular shapes. If an irregular disc (a disc with a special shape) is used, this DVD Recorder may be damaged.







Holding discs

 Avoid touching the surface of a disc where recording is performed.



DVD-RAM, DVD±RW and DVD±R

 Clean with an optional DVD-RAM/PD disc cleaner. Do not use cleaners or cloths for CDs to clean DVD-RAM/ DVD±RW/DVD±R discs.



DVD-Video, Audio CD

• Wipe off dirt or contamination on the disc with a soft cloth.

Cautions on handling discs

- Do not write on the printed side with a ball-point pen or pencil.
- Do not use record cleaning sprays or antistatic. Also, do not use volatile chemicals, such as benzene or thinner.
- Do not apply labels or stickers to discs. (Do not use discs fixed with exposed tape adhesive or leftover peeled-off stickers.)
- Do not use scratch-proof protectors or covers.
- Do not use discs printed with label printers available on the market.
- · Do not load warped or cracked discs.

Disc Storage

Be careful not to damage the disc because the data on these discs are highly vulnerable to the environment.

- · Do not keep under direct sunlight.
- · Keep in a cool ventilated area.
- · Store vertically.
- · Keep in a clean protection jacket.
- If you move your DVD Recorder suddenly from a cold place to a warm place, condensation may generate on the operating parts including the lens and cause abnormal disc playback. When this occurs, do not connect the plug to the power outlet. Wait for two hours, then insert the disc and try to playback again. It will work properly when condensation has evaporated.

Disc Specifications

DVD-Video

- A digital versatile disc (DVD) can contain up to 135-minutes of images, 8-language audio and 32 subtitle languages. It is equipped with MPEG-2 picture compression and Dolby 3D surround sound, allowing you to enjoy vivid and clear theater quality images in the comfort of your own home.
- When switching from the first layer to the second layer of a double-layered DVD Video disc, there may be momentary distortion in the image and sound. This is not a malfunction of the unit.
- Once a DVD±R/DVD-RW(V) recorded is finalized, it is playable in a standard DVD player.

Audio CD

- An audio disc on which 44.1kHz PCM Audio is recorded
- Plays CD-DA format audio CD-R and CD-RW discs.
 The unit may not be able to play some CD-R or CD-RW discs due to the condition of the recording.

CD-R/-RW

◆ MP3 CD-R/-RW

- Only CD-R discs with MP3 files recorded with ISO9660 or JOLIET format can be played back
- Only MP3 files with the ".mp3", ".MP3" extension can be used.
- For MP3 files recorded with a VBR(Variable Bit Rates), from 32 Kbps to 320 Kbps, the sound may cut in out.
- Playable bitrate range is from 56Kbps to 320Kbps.
- The unit can handle a maximum of 1000 files and folders.
- DVD-RAM/DVD±RW/DVD±R disc recorded with MP3 files can be played back.

♦ JPEG CD-R/-RW

- Only JPEG files with the ".jpg", ".JPG" extension can be used.
- The unit can handle a maximum of 1000 files and folders.
- Maximum size of progressive JPEG is 3M pixels.
- MOTION JPEG is not supported.
- DVD-RAM/±RW/±R discs that contain JPEG files can be played back.

♦ Using MPEG4 disc

- Disc : CD-R/-RW, DVD-RAM, DVD±R/ DVD±RW,
- MPEG4 File with following extensions can be played. :
 .avi. .divx. .AVI. .DIVX
- MPEG4 Codec format : DivX 3.11 DivX 4.x DivX 5.x
- Available Audio Format: "MP3", "MPEG", "PCM", "AC3", "DTS"
- · Supported subtitle file formats: .smi, .srt, .sub, .psb,.txt

◆ Using CD-R/-RW

- Use a 700MB(80 minutes) CD-R/-RW disc. If possible, do not use a 800MB(90 minutes) or above disc, as the disc may not play back.
- If the CD-R/-RW disc was not recorded as a closed session, you may experience a delay in the early playback time, and all recorded files may not play.
- Some CD-R/-RW discs may not be playable with this unit, depending on the device which was used to burn them.
- When recording from CDs for your personal use to CD-R/-RW discs, playability may vary depending on the contents and discs.

DVD±R Disc Playback and Recording

- Once a DVD±R recorded is finalized, it is playable in a standard DVD player.
- You can record onto the available space on the disc and perform editing functions such as giving titles to discs and programs and erasing programs before finalizing.
- When programming is erased from a DVD±R, that space does not become available. Once an area on a DVD ±R is recorded on, that area is no longer available for recording, whether the recording is erased or not.
- It takes about 30 seconds for the unit to complete recording management information after recording finishes.
- This product optimizes the DVD±R for each recording. Optimization occurs when you start recording after inserting the disc or turning on the unit. Recording onto the disc may become impossible if optimization is carried out too many times.
- Playback may be impossible in some cases due to the condition of recording.
- This unit can play back DVD±R discs recorded and finalized with a Samsung DVD video recorder. It may not be able to play some DVD±R discs depending on the disc and the condition of the recording.

DVD-RW Disc Playback and Recording

- Recording and playback can be performed on DVD-RW discs in both the Video and VR Modes.
- Once a DVD-RW is recorded in VR or Video mode is finalized, you cannot perform additional recording.
- Once a DVD-RW is recorded in Video Mode and finalized, it becomes a DVD-Video.
- In both modes, playback can be performed before and after finalization, but additional recording, deleting and editing can not be performed after finalization.
- If you want to record the disc in VR Mode and then record in V Mode, be sure to first reformat the disc.
 Please be aware that formatting may erase all of the discs content.

 When inserting an unused disc, a message will appear asking whether to initialize the disc or not. If you select "YES", the disc will be formatted in VR mode.

• DVD-RW (VR mode)

- This is a format that is used for recording data on a DVD-RW disc. You can record multiple titles, edit, delete, partial delete, create a playlist, etc.
- A disc that is recorded in this mode will not play in standard DVD players.

• DVD-RW (Video mode)

- This is a format that is used for recording data on a DVD-RW or DVD-R disc. The disc can be played by an existing DVD player once it has been finalized.
- If a disc that has been recorded in Video Mode by a different maker's recorder but has not been finalized, it cannot be played or recorded by this recorder.

DVD+RW Disc Playback and Recording

- With DVD+RW discs, there is no difference between DVD-Video format (Video mode) and DVD-Video Recording format (VR mode).
- You can make your own chapters on DVD+RWs and edit them using the Chapter Edit menu.
- Finalizing is generally unnecessary when using a DVD+RW disc.

DVD-RAM Disc Playback and Recording

- For cartridge type DVD-RAM discs, remove the cartridge and use only the disc
- Ensure that the recording mode is set to VR mode.
 Otherwise, this product will not be able to play the recording.
- You cannot play a DVD-RAM in most DVD players due to compatibility issues.
- Only DVD-RAM standard Version 2.0 discs can be played in this unit.
- DVD-RAM discs recorded on this unit may not work with other DVD Players. To determine compatibility with these DVD-RAM discs, refer to the user's manual for the player.

COPY PROTECTION

- Many DVD discs are encoded with copy protection.
 Because of this, you should only connect your DVD Recorder directly to your TV, not to a VCR.
 Connecting your DVD recorder to a VCR results in a distorted picture from copy-protected DVD discs.
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation.

Reverse engineering or disassembly is prohibited.

Protection

This DVD Recorder can allow you to protect the contents of your discs, as described below.

- Program-protection: See page 61 "Locking a Title"
- Disc-protection: See page 70 "Disc Protection"
- *DVD-RAM/DVD±RW/DVD±R discs that are incompatible with the DVD-VIDEO format cannot be played with this product.
- *For more information on DVD recording compatibility, consult your DVD-RAM/DVD±RW/DVD±R manufacturer.
- *Use of poor quality DVD-RAM/DVD±RW/DVD±R discs may cause the following unexpected problems including, recording failure, loss of recorded or edited materials or damage to the recorder.

Do not use the following discs!

- LD, CD-G, CD-I, CD-ROM and DVD-ROM discs should not be used in this product.
- Some commercial discs and DVD discs purchased outside your region may not be playable with this product. When these discs are played, either "No Disc." or "The disc cannot be played. Please check the regional code of the disc." will be displayed.
- If your DVD-RAM/DVD±RW/DVD±R disc is an illegal copy or is not in DVD video format, it may also not be playable.

♦ Disc Compatibility

- A 8X speed DVD+RW or greater disc can be played, but maximum recording speed is 4X.
- Not all brands of discs will be compatible with this unit.
- The latest firmware upgrade to improve recording & playback quality can be downloaded from our web site.
 (Download Center at www.samsung.com)
- If disc compatibility problems continue, or there is an issue upgrading your recorder, contact the Call Center at 1-800-SAMSUNG.

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General Features

The DVD-R157 allows you to record and play high quality digital video on DVD-RAM/DVD±RW/DVD±R discs.

High quality digital audio and video recording and playback

You can record up to approximately 16-hours of video on a double side 9.4 GB DVD-RAM disc,up to 15-hours on a dual-layer 8.5GB DVD±R disc, and up to 8-hours on a 4.7 GB DVD-RAM/DVD±RW/DVD±R disc, depending on the recording mode.

Selectable Record Mode

You can set your recorder to one of five different recording speeds, each varying in recording quality and length. EP mode yields the most recording time, LP & SP modes provide less recording time with higher quality recording, and XP mode gives you the highest quality recording. There's also the FR (Flexible Recording) mode that lets you record with the best picture quality possible for the recording time and remaining space on the disc in timer recording.

Automated Quality Adjustment for Timer Recording

If FR mode is selected, the video quality is adjusted automatically so that all video for the scheduled time can be recorded onto the free disc space. (See pages 43~44)

Create a DVD video title using a DVD±RW/DVD±R disc

With the DVD-R157, you can create your own DVD video title on 4.7 GB DVD±RW/DVD±R or 8.5GB DVD±R discs.

Copying data from a digital camcorder using a DV input jack

Record digital camcorder video onto DVD-RAM, DVD±RW or DVD±R discs using the DV input jack (IEEE 1394-4pin). (See page 41)

High quality progressive scan

Progressive scanning provides high resolution and flicker free video.

The 10-bit 54-MHz DAC and 2D Y/C Separating Circuitry provides the highest video playback and recording quality. (See page 20.)

A variety of functions with an easy-to-use user interface

The integrated menu system and the messaging function allows you to perform desired operations both easily and conveniently. With a DVD-RAM or DVD-RW (VR mode) disc, you can edit recorded images, create a playlist, and edit videos in a specific sequence according to your requirements.

MPEG4 playback

This DVD Recorder can play MPEG4 formats within an avi file.

DivX Certification

DivX, DivX Certified, and associated logos are trademarks of DivXNetworks, Inc and are used under license.



HDMI (High Definition Multimedia Interface)

HDMI reduces picture noise by allowing a pure digital video/audio signal path from the DVD Recorder to your TV.

Tunerless DVD Recorder

The DVD-R157 does not have a TV tuner. Recording TV broadcasts is possible via Connection to Cable/Satellite boxes and Multi Channel Video Services.

EZ REC MODE

This function allows you Initialize and Finalize a disc automatically. (See page 46)

Before Reading the Instruction Manual

Make sure to check the following before reading the user's manual.

Icons that will be used in manual			
Icon	Term	Definition	
DVD-VIDEO	DVD	This involves a function available in DVD or DVD-R/DVD-RW (V)/+R discs that have been recorded and finalized.	
DVD-RAM	RAM	This involves a function available in DVD-RAM.	
DVD-RW	-RW	This involves a function available in DVD-RW.	
DVD-R	-R	This involves a function available in DVD-R.	
DVD+RW	+RW	This involves a function available in DVD+RW.	
DVD+R	+R	This involves a function available in DVD+R.	
CD	CD	This involves a function available in a data CD (CD-R or CD-RW).	
JPEG	JPEG	This involves a function available JPEG in CD-R/-RW or DVD-RAM/DVD±RW/DVD±R discs.	
MP3	MP3	This involves a function available MP3 in CD-R/-RW or DVD-RAM/ DVD±RW/DVD±R discs.	
MPEG4	MPEG4	This involves a function available MPEG4 in CD-R/-RW or DVD-RAM/DVD±RW/DVD±R discs.	
!	Caution	This involves a case where a function does not operate or settings may be cancelled.	
	NOTE	This involves tips or instructions on the page that help each function operate.	
	One- Touch button	A function that can be operated by using only one button.	
ANYKEY	ANYKEY button	A function that can be operated by using ANYKEY button.	

About the use of this Instruction Manual

- Be sure to familiarize yourself with the Safety Instructions before using this product. (See pages 2 ~ 5)
- If a problem occurs, check the Troubleshooting section. (See pages 73 ~74)

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How to use the DVD Recorder

Step 1 : Select the disc type

This unit can record on the following types of discs. If you want to repeatedly record on the same disc or you want to edit the disc after recording, select a rewritable DVD±RW or DVD-RAM type disc.

If you want to save the recording without making any changes, choose a non-rewritable DVD±R.



Step 2 : Format the disc to start recording

The recorder automatically starts formatting when an unused disc is inserted. This is required for the preparation of disc recording.

Using a DVD-RAM

This type of disc can be formatted in DVD-Video Recording format (VR mode). You can edit recorded video and create a playlist and edit video in a specific sequence according to your requirements.

Using a DVD±RW/+R

- When an unused DVD±RW/+R disc is first inserted, the message "Uninitialized Disc. Do you want to initialize this disc?" will be displayed.
- If you select Yes, initializing will begin. DVD-RW disc can be formatted in either DVD-Video format (Video mode) or DVD-Video Recording format (VR mode)
- There are no differences between DVD-Video format (Video mode) and DVD-Video Recording format (VR mode) with DVD+RW discs.

Using a DVD-R

When using a DVD-R disc, only V mode recording is possible and no initialization is needed to play it on this recorder. However, finalization is necessary to play this disc on other DVD players.



- You can only use either the VR or Video mode on a DVD-RW, but not both at the same time.
- You can format a DVD-RW to V or VR mode using disc manager.
 - It should be noted that the disc's data will be lost when changing formats.

Step 3 : Recording

There are two different recording methods. Direct Recording (recording a program you are currently watching) and Timer Recording. Timer recording is determined as a Date: MM/DD, MON-FRI, Every SAT, etc.. There are 5 recording modes: XP(high quality mode), SP(standard quality mode), LP(long recording mode), EP(extended mode) and FR mode. When using FR mode to record, the picture quality is determined by the remaining time on the disc.

Step 4 : Playing

To start playback select the title you want to play from the Title list.

A DVD consists of sections called titles, and sub sections called chapters.

During recording, a title is created between two points where you start and stop recording. Chapters will be created automatically when you finalize recording on DVD-R/DVD-RW discs in Video mode.

You can make your own chapters on DVD+RWs and edit them using the Chapter Edit menu. The chapter's length (interval between chapters) varies according to the recording mode.

Step 5 : Editing a recorded disc

Editing on discs is easier than editing on conventional video tapes. The recorder supports many different edit functions, possible only with DVDs.

With a simple and easy edit menu, you can operate various edit functions, such as delete, copy, rename, lock, etc., on a recorded title.

With this recorder, you can create playlists using a DVD-RAM/DVD-RW in VR mode. Once a playlist is created you can create/edit a new playlist on the same disc without changing the original recording.

Step 6: Finalizing & Playing on other DVD components

To play your DVD on other DVD components, finalizing may be necessary. First, finish all editing and recording operations, then finalize the disc.

When using a DVD-RW disc in VR Mode

Although finalizing is generally unnecessary when playing the disc on a VR Mode compatible component, a finalized disc should be used for playback.

When using a DVD-RW disc in Video Mode

The disc should be finalized first to enable playback on anything other than this recorder. No more editing or recording can be made on the disc once it has been finalized.

When using a DVD±R disc

You should finalize the disc to play it on a component other than this recorder. No more editing or recording can be made on the disc once it has been finalized.

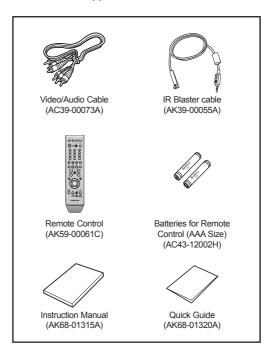


 You can finalize automatically using the EZ REC MODE. (See page 46)

Unpacking

Accessories

Check for the supplied accessories below.



Preparing the Remote Control

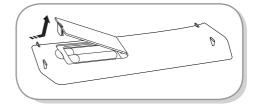
Install Batteries in the Remote Control

- Open the battery cover on the back of the remote.
- Insert two AAA batteries. Make sure that the polarities (+ and -) are aligned correctly.
- · Replace the battery cover.

If the remote control does not operate properly:

- Check the polarity + of the batteries.
- Check if the batteries are drained.
- Check if the remote sensor is blocked by obstacles.
- · Check if there is any fluorescent lighting nearby.

Dispose of batteries according to local environmental regulations. Do not put them in the household trash.



To determine whether your television is compatible, follow the instructions below.

- 1. Switch your television on.
- 2. Point the remote control towards the television.
- 3. Press and hold the POWER button and enter the two-figure code simultaneously corresponding to the brand of your television by pressing the appropriate number buttons.

Brand	BUTTON
AIWA	82
ANAM	10, 11, 12, 13, 14, 15, 16, 17, 18
BANG &	57
OLUFSEN	
BLAUPUNKT	71
BRANDT	73
BRIONVEGA	57
CGE	52
CONTINENTAL EDISON	75
DAEWOO	19, 20, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34
EMERSON	64
FERGUSON	73
FINLUX	06, 49, 57
FORMENTI	57
FUJITSU	84
GRADIENTE	70
GRUNDIG	49, 52, 71
HITACHI	60, 72, 73, 75
IMPERIAL	52
JVC	61, 79
LG	06, 19, 20, 21, 22, 78
LOEWE	06, 69
LOEWE OPTA	06, 57
MAGNAVOX	40
METZ	57
MITSUBISHI	06, 48, 62, 65
MIVAR	52, 77
NEC	83
NEWSAN	68
NOBLEX	66
NOKIA	74
NORDMENDE	72, 73, 75
PANASONIC	53, 54, 74, 75
PHILIPS	06, 55, 56, 57
PHONOLA	06, 56, 57
PIONEER	58, 59, 73, 74
RADIOLA	06, 56
RADIOMARELLI	57
RCA	45, 46
REX	74

BRAND	BUTTON
SABA	57, 72, 73, 74, 75
SALORA	74
SAMSUNG	01,02,03,04,05,06,07,08,09
SANYO	41, 42, 43, 44, 48
SCHNEIDER	06
SELECO	74
SHARP	36, 37, 38, 39, 48
SIEMENS	71
SINGER	57
SINUDYNE	57
SONY	35, 48
TELEAVA	73
TELEFUNKEN	67, 73, 75, 76
THOMSON	72, 73, 75
THOMSON ASIA	80, 81
TOSHIBA	47, 48, 49, 50, 51, 52
WEGA	57
YOKO	06
ZENITH	63

Result: If your television is compatible with the remote control, it will switch off. It is now programmed to operate with the remote



■ If several codes are indicated for your television brand, try each one in turn until you find one that works. If you replace the remote control's batteries, you must set the brand code again.

You can then control the television using the following buttons.

Button	Function	
POWER	Used to switch the television on and off.	
INPUT SEL.	Used to select an external source.	
TV VOL +/-	Used to adjust the volume of the television.	
CBC/TV CH	Used to select the desired channel.	
TV MUTE	Used to toggle the sound on and off.	
0~9	Used to input number directly.	
TV 100+	Used to select channels over 100.	

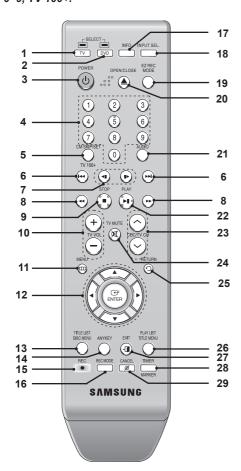


The various functions may be able to be controlled on all televisions. If you encounter problems, operate the television directly.

Tour of the Remote Control

You can control part of another manufacturer's TV functions with this remote control.

 Buttons that can be controlled on your TV: POWER, INPUT SEL., TV VOL (+/-), CBC/TV CH(∧/∨), TV MUTE, 0~9, TV 100+.



1. TV Button

Press this to operate your TV.

2. DVD Button

Press this to operate your DVD Recoder.

3. POWER Button

Press to power the DVD Recorder on and off.

4. NUMBER Buttons

5. TV 100+/CM SKIP/SET Button

Press this to select channel 100 or higher. Press this to skip a portion of the program automatically during playback of a DVD disc. Press this to change the set top box channels. (For some set top box brands)

6. REVERSE/FORWARD SKIP Buttons

Press to skip a disc backwards or forwards.

7. REVERSE/FORWARD STEP Buttons

Press to play frame by frame.

8. REVERSE/FORWARD SEARCH Buttons

Press to search a disc backwards or forwards.

9. STOP Button

Press to stop a disc or to stop the recording.

10. TV VOL Buttons

Volume adjustment.

11. MENU Button

Brings up the DVD recorder's setup menu.

12. ENTER/DIRECTION Buttons

(UP/DOWN and LEFT/RIGHT Buttons)
This button functions as a toggle switch.

13. TITLE LIST/DISC MENU Button

Use this to enter the View Recording list/Disc menu.

14. ANYKEY Button

Use this to view the status of the disc that is being played.

15. REC Button

Use to make a recording on writable/rewritable discs.

16. REC MODE Button

Use this to set the desired Recording time and picture quality. (XP/SP/LP/EP)

17. INFO Button

This will display current setting or disc status.

18. INPUT SEL. Button

Selects line input signal in external input mode. (AV1, AV2 or DV)

19. EZ REC MODE Button

20. OPEN/CLOSE Button

To open and close the disc tray.

21. AUDIO Button

Use this to access various audio functions on a disc. (DVD mode)

22. PLAY/PAUSE Button

Press to play/pause a disc.

23. CBC/TV CH Buttons

Use this to select a TV channel.

24. TV MUTE Button

This operates as Sound Mute. (TV mode)

25. RETURN Button

Returns to the previous menu.

26. PLAY LIST/TITLE MENU Button

Use this to return to the Title menu, or to view the recorded Playlist.

27. EXIT Button

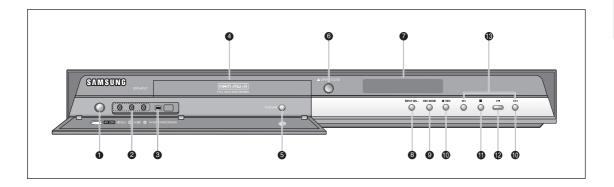
28. TIMER/MARKER Button

29. CANCEL Button

^{*} This is a special remote control for the visually impaired, and has Braille points on the POWER(⊚), STOP(⊙) and PLAY(⊙) buttons..

Description

Front Panel



1. POWER Button

Turns the recorder on and off.

2. AV 2 IN

Connect external equipment.

DV-IN

Connects external digital equipment with a DV jack. (such as a camcorder)

4. DISC TRAY

Opens to accept a disc.

5. P.SCAN Button

Selects the progressive scan mode.

6. OPEN/CLOSE Button

Opens and closes the disc tray.

7. DISPLAY

Displays the playing status, time, etc.

8. INPUT SEL. Button

Select line input signal in external mode. (AV1, AV2, or DV)

9. REC MODE Button

Use this to set the desired Recording time and picture quality. (XP/SP/LP/EP)

10. REC Button

Starts recording.

11. STOP Button

Stops disc playback.

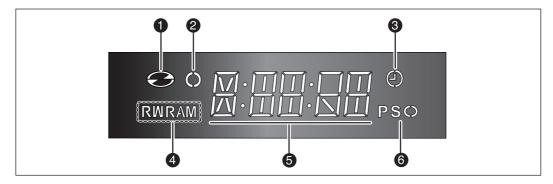
12. PLAY/PAUSE Button

Plays a disc or pauses playback.

13. SKIP Buttons

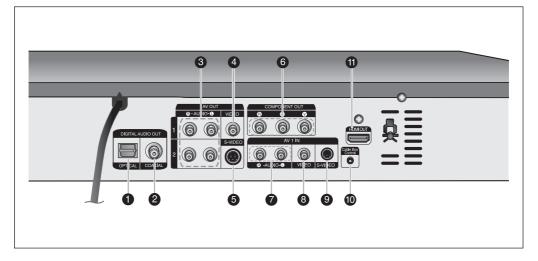
Go to the next title/chapter/track, or go back to the previous title/chapter/track.

Front Panel Display



- 1. Lights when a disc is loaded.
- 2. Lights in the record mode.
- 3. Lights to indicate the timer record mode.
- Lights when a DVD-RAM/DVD±RW/DVD±R disc is loaded.
- 5. Alpha/Numeric display.
- 6. Lights in the progressive scan mode.

Rear Panel



1. DIGITAL AUDIO OUT(OPTICAL)

Connects to an amplifier having a digital optical audio input jack.

2. DIGITAL AUDIO OUT(COAXIAL)

Connects to an amplifier having a digital coaxial audio input jack.

3. AV AUDIO OUT

Connect to the audio input of external equipment using audio cables.

4. AV VIDEO OUT(good video quality)

Connects the input of external equipment using a Video cable.

5. AV S-VIDEO OUT(better video quality)

Connects the input of external equipment using an S-Video cable.

6. COMPONENT VIDEO OUT(best video quality)

Connect to equipment having Component video input jacks.

7. AV 1 AUDIO IN

Connect the output of external equipment using audio cables

8. AV 1 VIDEO IN

Connects the output of external equipment using a video cable.

9. AV 1 S-VIDEO IN

Connects the output of external equipment using an S-Video cable.

10. Cable Box Control OUT

Connection of the IR Blaster for a cable box.

11. HDMI OUT

Connects the input of external equipment using a HDMI cable.

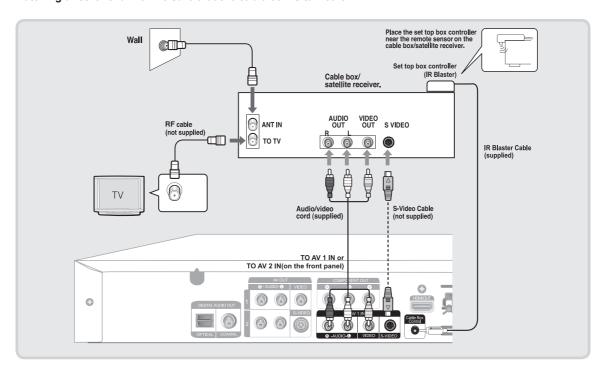


Step 1: Connecting the Antenna Cable

This section involves various methods of connecting the DVD Recorder to other external components.

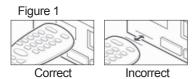
Antenna + Set Top Box Controller + DVD Recorder + TV : Cable box with a video/ audio output or a satellite receiver

You can record channels by selecting the channel on the cable box. You cannot record one channel while watching another channel. Be sure that the cable box is turned on.



Getting Connected

- Find and Connect the included IR Blaster cable into the Cable Box Control jack of the DVD Recorder.
- Find the Cable Box IR Sensor
 To control cable box recording, find the IR sensor.
 A. Turn the cable box Off.
 - B. Hold the cable box's remote so that it touches the front of the device (see Figure 1).



C. Move the remote across the front while pressing the power button On and Off (Figure 2).



(Press and release the power button each time you move the remote; holding down the button will not work.) D. When the cable box powers On, you have found the sensor. E. Remember the location of the sensor.

3. Place the IR Blaster.

Place the Set top box controller of the IR Blaster on the top or underneath the cable box approximately 1 inch in front of the sensor you found in 2.

Use the double-sided tape to secure the IR Blaster.



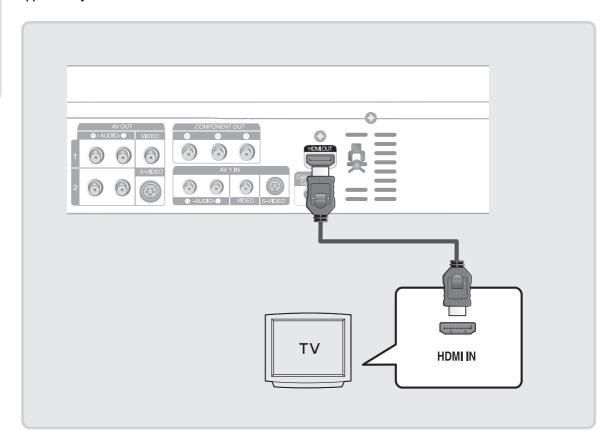
- You must select a cable box brand from the table on pages 75~77. If you do not know the brand name, please contact your cable provider.
- After connecting cable box to the DVD recorder through the IR Blaster cable, you need to set up the Set Top Box Control menu. (See pages 27~28)
- The DVD-R157 does not have a TV Tuner.

Step 2: Connecting HDMI/DVI to a TV

If your TV has a HDMI/DVI input, connect the HDMI/DVI cable to the TV. You will enjoy the best quality image and sound.

Connecting to a TV with HDMI Jack

Using the HDMI- HDMI cable connect the HDMI OUT jack on the rear of the DVD Recorder to the HDMI IN jack of your TV. Press the input selector on your TV remote control until the HDMI signal from the DVD Recorder appears on your TV screen.



- !
- To watch through the HDMI output, set the digital audio output to PCM.(See page 32)
- Depending on the HDMI device(TV/HDMI Receiver) you use, audio may not be supported. If your TV does not support Dolby digital/DTS, Audio output is not available when you set the Digital output to Bitstream or select DTS On in the Audio setup menu. In this case, set the digital audio ouput to PCM or DTS Off.
- If you use an HDMI cable to connect a Samsung TV to the DVD recorder, you can operate the recorder using the TV remote control. (This is only available with SAMSUNG TVs that support Anynet+(HDMI-CEC).) (See pages 30~31)

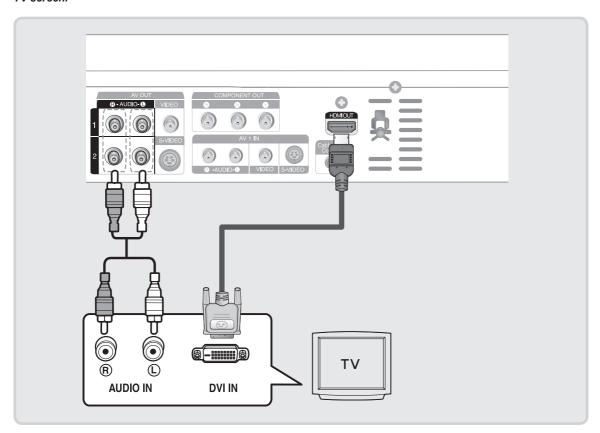
■ Please check the Anynet* logo (If your TV has an Anynet* logo, then it supports Anynet+ function.)

Connecting to a TV with DVI Jack

Using the HDMI-DVI cable (not included), connect the HDMI OUT terminal on the rear of the DVD Recorder to the DVI IN terminal of your TV.

An HDMI to DVI connection requires a separate audio connection, using the audio cables, connect the AUDIO (red and white) OUT terminals on the rear of the DVD Recorder to the AUDIO (red and white) IN terminals of your TV. Turn on the DVD Recorder and TV.

Press the input selector on your TV remote control until the DVI signal from the DVD Recorder appears on your TV screen.





- To change HDMI output resolution, see page 34.
- HDMI (High Definition Multimedia Interface)
 HDMI enables you to make a digital video and audio connection with a single cable.
 Using HDMI, the DVD player transmits a digital video and audio signal and displays a vivid picture on a TV having an HDMI input jack.
- HDMI is completely compatible with DVI. The only difference between HDMI and DVI is that HDMI supports multi-channel audio.
- HDMI connection description

HDMI connector - Both uncompressed video data and digital audio data (LPCM or Bit Stream data).

- The DVD recorder outputs a pure digital signal to the TV.
- If your TV does not support HDCP (Highbandwidth Digital Content Protection), snow noise appears on the screen.

■ Why does Samsung use HDMI?

Analog TVs require an analog video/audio signal. However, when playing a DVD, the data transmitted to a TV is digital. Therefore either a digital-to-analog converter (in the DVD Recorder) or an analog-to-digital converter (in the TV) is required. During this conversion, the picture quality is degraded due to noise and signal loss. HDMI technology is superior because it requires no D/A conversion and is a pure digital signal from the DVD recorder to your TV.

■ What is the HDCP?

HDCP (High-bandwidth Digital Content Protection) is a system for protecting DVD content output via HDMI from being copied. It provides a secure digital link between a video source (PC, DVD. etc) and a display device (TV, projector. etc). Content is encrypted at the source device to prevent unauthorized copies from being made.

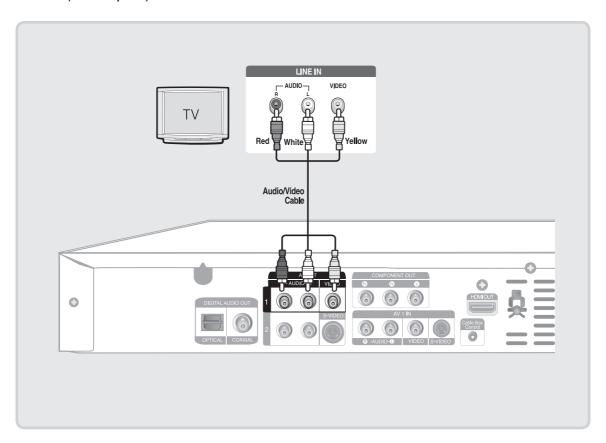
Step 3: Connecting the Video Cable

There are several ways to connect your DVD Recorder. Select one of the video connections on the following pages.

You must use one of the following audio/video connections on this unit.

Connecting to a Video input jack

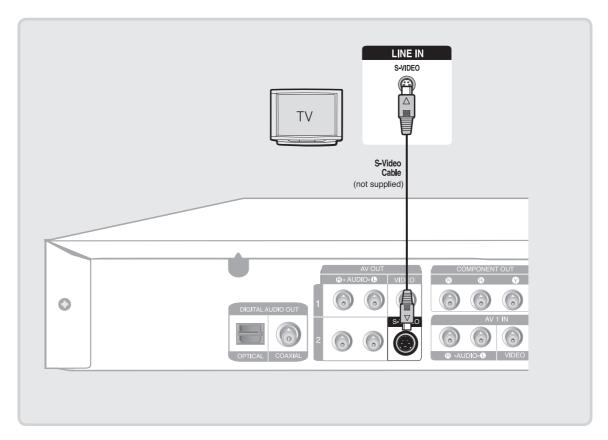
Connect a video(yellow) cable between the VIDEO(yellow) OUT jack on DVD Recorder and VIDEO(yellow) IN jack on the TV (or AV amplifier).



- You will enjoy normal quality images.
- Connect the audio cables(white and red) between the AUDIO OUT jacks on the DVD Recorder and AUDIO IN jacks on your TV(or AV amplifier). (See pages 21~23)

Connecting to an S-Video input jack

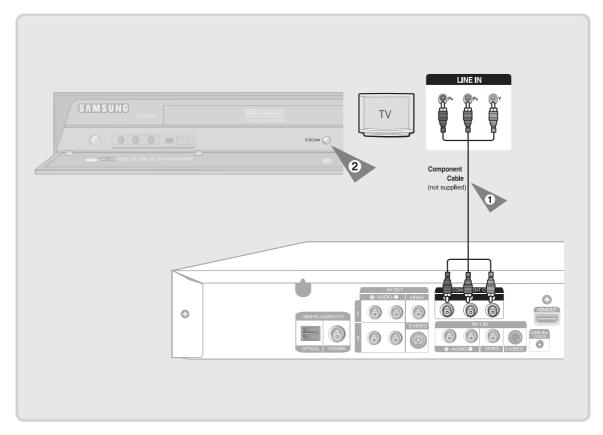
Connect an S-Video cable(not supplied) between the S-VIDEO OUT jack on DVD Recorder and S-VIDEO IN jack on your TV (or AV amplifier).



- You will enjoy high quality images. S-Video separates the picture element into black and white (Y) and color (C) signals to present clearer images than regular video input mode.
- Connect the audio cables(white and red) between the AUDIO OUT jacks on the DVD Recorder and AUDIO IN jacks on your TV(or AV amplifier). (See pages 21~23)



S-Video or Component video outputs are available only if your TV supports S-Video input or Component video input, respectively. If S-Video or Component video output does not work, check your TV connections and the TV input selection settings.



- Connect the Component video cables(not supplied) between the COMPONENT OUT(Y,PB,PR) jacks on the DVD Recorder and COMPONENT IN(Y,PB,PR) jacks on your TV (or AV amplifier).
- If the connected TV supports Progressive Scan, press the P.SCAN button on the front of the DVD Recorder to enjoy best quality video. Pressing the **P.SCAN** button switches Progressive (480p) / Interlace (480i) scan mode on.
- You will enjoy the best quality accurate color reproduction images. Component video separates the picture element into black and white(Y), blue(P_B) and red(P_R) signals to present clear and clean images.
- Connect the audio cables(white and red) between the AUDIO OUT jacks on the DVD Recorder and AUDIO IN jacks on your TV(or AV amplifier).
 (See pages 21~23)



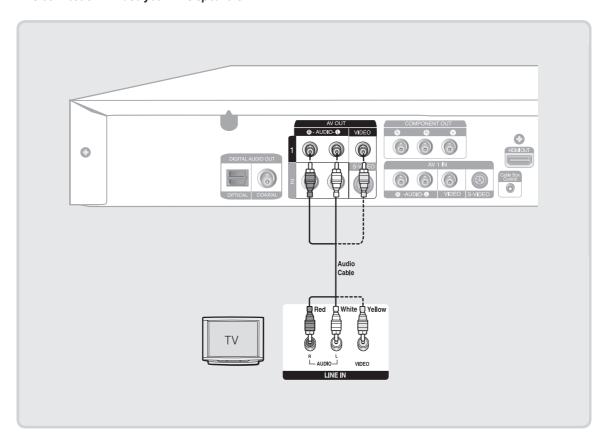
- Compared to standard interlaced video, progressive scan doubles the amount of video lines fed to your TV, resulting in a clearer, more stable, and flicker free image than interlaced video. The component output jack of the DVD player can be used for progressive output mode, which is only available with TVs that support progressive scan.
- Progressive Scan Output (480p). Not all high definition television sets are fully compatible with this product. If the 480p progressive scan picture is not satisfactory, press the P.SCAN button on the unit to switch to the Interlace mode. If there are questions regarding TV set
 - compatibility with this model, please contact our customer service center at 1-800-SAMSUNG.
- The Component jacks will not output video resolutions above 480p. To view 720p and 1080i, connect the DVD-R157 to your TV with an HDMI-HDMI cable. With HDMI connected, press the P.SCAN button to alternate between all available resolutions. (See page 34)

Step 4 : Connecting the Audio Cable

Select one of the Audio connections on the following pages.

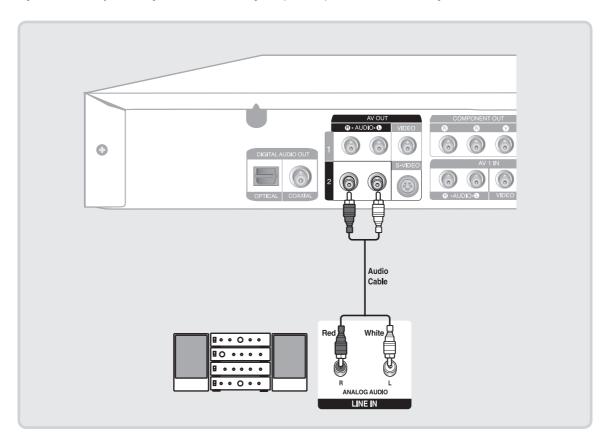
Connecting to your TV

This connection will use your TV's speakers.



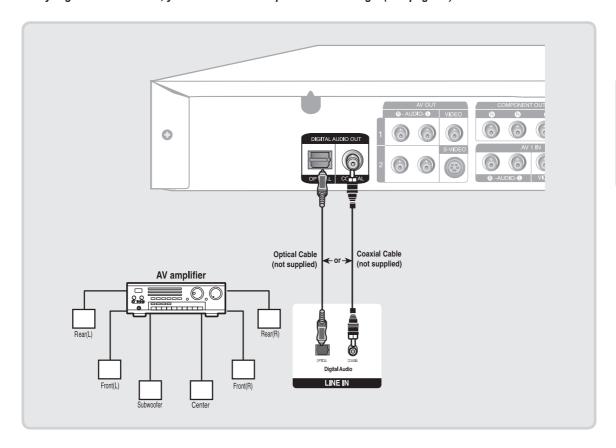
Connecting to a stereo amplifier with analog input jacks

If your stereo amplifier only has AUDIO INPUT jacks(L and R), use the AUDIO OUT jacks.



Connecting to an AV amplifier with a digital input jack

If your AV amplifier has a Dolby Digital or DTS decoder and a digital input jack, use this connection. To enjoy Dolby Digital or DTS sound, you will need to set up the audio settings. (See page 32)



Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

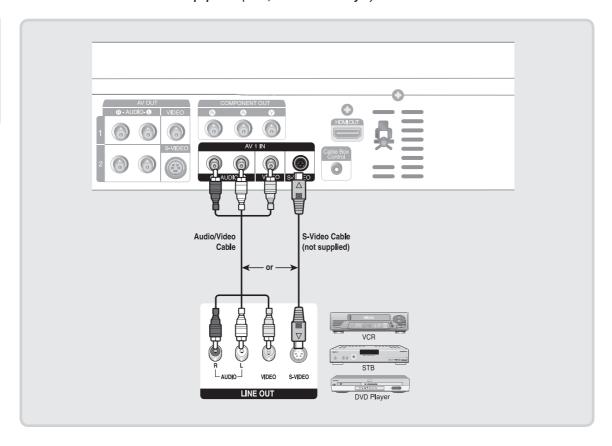
"DTS" and "DTS Digital Out" are trademarks of DTS, Inc.

Step 5 : Connecting External Devices

This allows you to connect your DVD Recorder to other external devices and view or record their outputs.

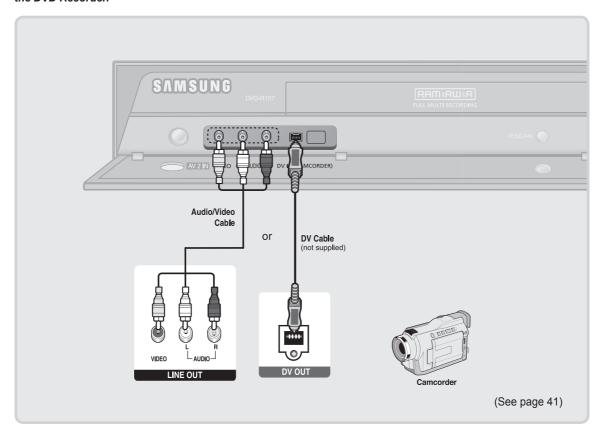
Connecting a VCR, Set Top Box(STB) or DVD Player to the AV 1 IN or S-VIDEO IN jacks

Connecting a VCR or external device to the AV 1 IN jacks of the DVD Recorder. You can record from connected equipment (VCR, STB or DVD Player).



Connecting a Camcorder

You can record from connected equipment, such as a camcorder by using the AV 2 IN or DV IN jacks on front of the DVD Recorder.





- when an Input source is inserted into AV 2 while watching TV, the Input will be switched to AV 2 automatically.
- If the Input is not selected automatically, press the INPUT SEL. button on the remote control to select the DV Input.
- Check your camcorder's owner's manual to see how to use the camcorder in this mode.





Initial Setup

If you connected an external Audio System, turn on your Audio System and select AUX, CD or DVD.

The OSD (On-Screen Display) displayed on the screen may vary depending on conditions such as the disc type and whether the disc has been inserted or not.

OSD Language Setup

After plugging in the recorder, the first time you press the POWER button, the screen shown to the left appears.

- 1. Press the **POWER** button.
- 2. Press a number button to select the language.



If the language for the startup screen is not set, the settings may change whenever you turn the power on or off. Therefore, make sure that you select the language you want to use.

Using the Setup Menu

For ease of use, we recommend that you perform the initial setup before using the product.

 With the unit in Stop mode/No Disc mode, press the MENU button on the remote control.

Menu items differ depending on the disc type.

Select Setup using the ▲ ▼ buttons, then press the ENTER or ► button.

Setup menu will be displayed.

System

Setup of the General Options.

- Set Top Box Control, CM Skip Time, EP Mode Time, Chapter Creator, Quick Recording, Anynet+(HDMI-CEC)
- Clock Set
 - Manual Clock Set

Language

Setup of the Language Options.

- Audio, Subtitle, Disc Menu, On-Screen Menu

Audio

Setup of the Audio Options

- Digital Output, DTS, Dynamic Compression

Video

Setup of the Display Options.

 TV Aspect, Input Level, Black Level, 3D Noise Reduction, HDMI/DVI Resolution, DivX(R) Registration

Parental Control

Setup of the Parental Level

Allows users to set the level necessary to prevent children from viewing unsuitable movies such as those with violence, adult subject matter, etc.

- Password, Rating Level, Change Password













Setting Up the System Options

Set Top Box Control

If you have your cable box/satellite receiver(set top box) connected as shown on page 15, the box can be controlled after setting up this menu.

- With the unit in Stop mode/No Disc mode, press the MENU button on the remote control.
 - Menu items differ depending on the disc type.
- Select Setup using the ▲ ▼ buttons, then press the ENTER or ► button.
- Select System using the ▲ ▼ buttons, then press the ENTER or ► button.
 - System menu will be displayed.
- Select Set Top Box Control using the ▲ ▼ buttons, then press the ENTER or ► button.
 - Set Top Box Control menu will be displayed.
- 5. Select the desired sub menu(Control, Connection, CH Digit Lock, Mode for SET button, and Brand Code) using the ▲ ▼ buttons, then press the ENTER or ► button.

Control

Select the sub item(Off or On) using the ▲ ▼ buttons, then press the ENTER button.

- Off: Turns off the cable box or satellite receiver (set top box) control function. Select this if you do not want to use the supplied set top box controller (IR Blaster).
- On: Turns on the cable box or satellite receiver (set top box) control function.

Connection

Select the sub item (AV1, AV2 or S-Video) using the ▲ ▼ buttons, then press the ENTER button.

If you connect your cable box or satellite receiver to the recorder's audio/video input. (page15)

- AV1 : Select this when the cable box or satellite receiver is connected to the DVD recorder's AV 1 IN jacks.
 - You can watch the output of the cable box or satellite receiver connected to AV1 when the Recorder is powered off.
- AV2 : Select this when the cable box or satellite receiver is connected to the DVD recorder's AV 2 IN jacks.
- S-Video: Select this when the cable box or satellite receiver is connected to the DVD recorder's S-Video IN jack.

You can't select AV1 when the cable box or satellite receiver is connected to the S-Video input.



- See the instruction supplied with your cable box to confirm the cable box's antenna output channel.
- The DVD-R157 dose not have a TV tuner.

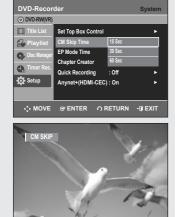
 Recording TV broadcasts is possible via Connection to Cable/
 Satellite boxes and Multi Channel Video Services.



Brand Code



♦ MOVE @ ENTER • RETURN • EXIT



CH Digit Lock

Select the sub item(Off or Lock to two digits) using the $\blacktriangle \blacktriangledown$ buttons, then press the ENTER button.

- Off: Select this when your cable box or satellite receiver only accepts a three or more digit channel number. Normally select this.
- Lock to two digits: Select this when your cable box or satellite receiver only accepts a two digit channel number.

Mode for SET button

Select the sub item(Off, Mode 1 or Mode 2) using the ▲ ▼ buttons, then press the ENTER button.

Select "Mode 1" or "Mode 2" if your cable box or satellite receiver requires pressing the **SET** button, after entering the channel number.

- Off: No code is sent when the SET button is pressed. Normally select this.
- Mode 1 or Mode 2 : Sends the channel number you entered.



- If "Mode 1" does not work, try "Mode 2."
- If your cable box or satellite receiver does not respond to either setting, contact the manufacturer of the cable box or satellite receiver.

Brand Code

Enter the brand code of your cable box or satellite receiver using the number buttons, then press the ENTER button. (See "Cable Box/Satellite Receiver Brand Code Table" on pages 75~77.)



 If you cannot get the recorder to control your cable box/satellite receiver. Check the connection and position of the IR Blaster cable. (page15)

If your cable box or satellite receiver still does not operate with this recorder, contact your cable company to see if they can provide you with a compatible cable box or satellite receiver.

CM Skip Time Setting

When a program recorded on a DVD-RAM, a DVD-RW, DVD-VIDEO or a DVD-R is played, the unit can be set to automatically skip a portion of the program corresponding to a CM(commercial) Skip Time set by the user.

- With a disc inserted and the unit in Stop mode, press the MENU button on the remote control.
- 2. Select **Setup** using the ▲ ▼ buttons, then press the **ENTER** or ▶ button

You can't use the Setup functions while playing a disc.

- Select System using the ▲ ▼ buttons, then press the ENTER or ► button
 - System menu will be displayed.
- Select CM Skip Time using the ▲ ▼ buttons, then press the ENTER or ▶ button.

CM Skip Time will be displayed.

- Select the desired time using the ▲ ▼ buttons, then press the ENTER or ► button.
- 6. If you press the CM SKIP button during playback, the section corresponding to the set time is skipped, and then the next section is played.



- CM Skip can be performed only during normal playback.
- When the time set is less than the remaining time of a current title: The next title is played from the beginning.
- When the time set is less than the remaining time of a playlist, the next scene is played.
- CM Skip does not work in a still picture mode.
- When a set time is less than the remaining time of a scene, last title, or last track that is currently displayed, a prohibition mark appears.
- CM Skip releases Repeat (including Repeat A-B, Chapter, and Title).
- CM Skip may not operate with some DVD-Video discs.
- DVD+R/DVD+RW discs doesn't support this function.

EP Mode Time Setting

You can set the EP (Extended Play) mode's time to 6 or 8 hours.

- With a disc inserted and the unit in Stop mode, press the MENU button on the remote control.
- Select Setup using the ▲ ▼ buttons, then press the ENTER or ▶ button.

You can't use the Setup functions while playing a disc.

- Select System using the ▲ ▼ buttons, then press the ENTER or ► button.
- **4.** Select **desired option** using the ▲ ▼ buttons, then press the **ENTER** or ▶ button.

EP Mode Time will be displayed.

 Select the desired menu using the ▲ ▼ buttons, then press the ENTER or ► button.



Automatic Chapter Creation

This function works for DVD-RW (Video) and DVD-R discs only.

- With a disc inserted and the unit in Stop mode, press the MENU button on the remote control.
- Select Setup using the ▲ ▼ buttons, then press the ENTER or ► button

You can't use the Setup functions while playing a disc.

Select System using the ▲ ▼ buttons, then press the ENTER or ► button.

System menu will be displayed.

 Select Chapter Creator using the ▲ ▼ buttons, then press the ENTER or ► button.

Chapter Creator items will be displayed.

- **5.** Select **On** using the **▲** ▼ buttons, then press the **ENTER** button.
 - Off: Select this option when you do not want to create chapters.
 - On : Select this option when you want to create chapters.



Set Top Box Control

CM Skip Time

EP Mode Time

: 15 Sec

: 6 Hou

DVD-Record

O DVD-RW(V)

П







- Set the chapter creator to on and then start recording. Stopping the recording will automatically create a chapter menu.
- This function only works for normal recording.
 - After the recording has begun, the "Do you want to create the chapter menu after this recording?" message appears for 10 seconds. Select Yes or No.
 - Selecting Yes will create a new chapter menu while selecting No will not.
 - A new chapter is created according to the selected recording mode. A chapter will be about 5 minutes long in XP and SP, and about 15 minutes long in LP and EP mode.
- To display the created chapters and finalize the disc, press the **DISC MENU** button. The chapters menu appears.



■ The Automatic Chapter Creation function does not work during Timer Recording or when you turn the power off.

Quick Recording Setting

It takes about 10 seconds for a disc to load (initialize) every time you turn on the unit. To bypass this initialization process, you can set the Quick Recording feature to On. This enables you to record immediately without having to wait for the disc to load.

- With a disc inserted and the unit in Stop mode, press the MENU button on the remote control.
- Select Setup using the ▲ ▼ buttons, then press the ENTER or ► button.

You can't use the Setup functions while playing a disc.

- Select System using the ▲ ▼ buttons, then press the ENTER or ► button.
 - System menu will be displayed.
- Select Quick Recording using the ▲ ▼ buttons, then press the ENTER or ► button.
 - Quick Recording menu will be displayed.
- 5. Select On using the ▲ ▼ buttons, then press the ENTER or ▶ button.



■ The Quick Recording is set to Off as default.

Anynet+(HDMI-CEC)

Anynet+ is a function that can be used to operate the recorder using a Samsung TV remote control, by connecting the DVD Recorder to a SAMSUNG TV using an HDMI Cable. (see page 16) (This is only available with SAMSUNG TVs that support Anynet+.)

- With the unit in Stop mode/No Disc mode, press the MENU button on the remote control.
- 2. Select **Setup** using the ▲ ▼ buttons, then press the **ENTER** or ▶ button.
- Select System using the ▲▼ buttons, then press the ENTER or ► button. The system menu will be displayed.
- Select Anynet+(HDMI-CEC) using the ▲ ▼ buttons, then press the ENTER or ► button.

Anynet+(HDMI-CEC) items will be displayed.

5. Select On using the ▲ ▼ buttons, then press the ENTER or ▶ button.

For using Anynet+(HDMI-CEC)

- Connect the recorder to a Samsung TV with an HDMI cable. (See page 16)
- Set the Anynet+(HDMI-CEC) to "On" on your DVD Recorder. (see above)
- Set the Anynet+ function on your TV. (See the TV instruction manual for more information.)



TV Menu





- You can operate the DVD Recorder by using TV remote control.
 (TV buttons that can be used to control the DVD Recorder : ⊕, ⊕, ⊕,
 ⊕, ⇔, ⇒ and () ∫ buttons, ⊚ ~ ⊕ button)
- When you press Anynet+ button on the TV's remote control, the OSD to the left will appear.
- **DVDR Operation** : Same as **ANYKEY** button () on the DVD Recorder remote control.
- DVDR Menu : Same as MENU button () on the DVD Recorder remote control.



- By pressing the **PLAY** button of the recorder while watching TV, the TV screen will change to the play screen.
- If you play a DVD when the TV power is off, the TV will power On.
- If you turn the TV off, the DVD Recorder will power off automatically. (When the DVD recorder is recording, it can't be powered off.)
- If you change HDMI to other sources(Composite, Component, RF... etc) on your TV while playing a DVD disc, the DVD Recorder will stop playing. The DVD Recorder may keep playing certain discs based on their content.

Clock Set

This menu is used to set the current time. You must set the time first to use timer recording.

- With the unit in Stop mode/No Disc mode, press the MENU button on the remote control.
- 2. Select **Setup** using the ▲ ▼ buttons, then press the **ENTER** or ▶ button.
- Select Clock set using the ▲ ▼ buttons, then press the ENTER or ► button. Clock set menu will be displayed.

Select the current date and time (Month, Day, Year, Hour, Minute and AM/PM) using the ▲ ▼ ◀ ▶ or number buttons and then press the ENTER button.

When the current time is stored in memory and the set is powered off, the current time will appear in the front panel display.

▲ ▼ : Sets the value

You can set the value using the number (0~9) buttons.

◆ : Moves to items



- The Menus are slightly different depending on whether a disc is inserted or not. The menus described on the next few pages are with no disc in the unit.
- The menus are not available during playback or recording.

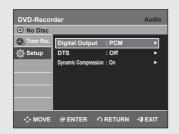
Language Setting

If you set the language options in advance, they will come up automatically every time you watch a movie.

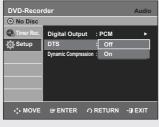
- With the unit in Stop mode/No Disc mode, press the MENU button on the remote control.
- 2. Select **Setup** using the ▲ ▼ buttons, then press the **ENTER** or ▶ button.
- Select Language using the ▲▼ buttons, then press the ENTER or ▶ button.
 The language setup menu will be displayed.
- Select the sub menu(Audio, Subtitle, Disc Menu, On-Screen Menu) and press the ENTER or ► button using the ▲ ▼ buttons.
 - Audio : For the disc audio language.
 - Subtitle: For the disc subtitles.
 - Disc Menu : For the disc menu contained on the disc.
 - On-Screen Menu: For the unit menu of your DVD recorder.
- Select the desired language using the ▲ ▼ buttons, then press the ENTER or ► button.



- If the selected language is not recorded on the disc, the original pre-recorded language is selected.
- The selected language will only appear if it is supported on the disc.



DVD-Recorder O No Disc O No Di





Setting Up the Audio Options

You can connect the DVD-R157 to an external audio amplifier or a Home Theater system.

This allows you to setup the audio device and sound status settings depending on the audio system in use.

- With the unit in Stop mode/No Disc mode, press the MENU button on the remote control.
- Select Setup using the ▲ ▼ buttons, then press the ENTER or ► button
- Select Audio using the ▲ ▼ buttons, then press the ENTER or ► button.
- Select the sub menu(Digital Output, DTS, Dynamic Compression)
 using the ▲ ▼ buttons, then press the ENTER or ► button.

Select the item that matches the audio connection you've selected on pages 21~23(Method 1, 2 and 3).

Digital Output

- **PCM**: Converts to PCM(2CH) 48kHz audio. Select PCM if your amplifier system is stereo and/or Dolby Prologic.
- Bitstream: Outputs Bitstream.
 Select Bitstream if your amplifier system supports multi channel digital audio surround decoding such as Dolby Digital and/or DTS.

DTS

- On: Outputs DTS bitstream. (via Digital Audio Output)
 Select DTS when connecting to a digital amp with DTS decoder.
- · Off: Doesn't output DTS bitstream.
- When DTS soundtrack is played, sound is not output from Analog Audio Output.

Dynamic Compression

This is only active when a Dolby Digital signal is detected.

- On: When movie soundtracks are played at low volume or from small speakers, the system can apply appropriate compression to make lowlevel content more intelligible and prevent dramatic passages from getting too loud.
- Off: You can enjoy the movie with standard Dynamic Range.
- Select the desired item(PCM, Bitstream, DTS-Off, DTS-On, Dynamic Compression-Off or Dynamic Compression-On) using the ▲ ▼ buttons

Then press the **ENTER** or **▶** button.



Video(Display) Setting

This allows you to set up the TV screen settings.

TV Aspect

- 1. With the unit in Stop mode/No Disc mode, press the MENU button.
- 2. Select **Setup** using the ▲ ▼ buttons, then press the **ENTER** or ▶ button.
- 3. Select Video using the ▲ ▼ buttons, then press the ENTER or ▶ button.
- 4. Select TV Aspect using the ▲ ▼ buttons, then press the ENTER or ▶ button.
- Select the desired item(4:3 Letter Box, 4:3 Pan-Scan or 16:9 Wide)
 using the ▲ ▼ buttons.

Then press the **ENTER** or ▶ button.

If you have a 4:3 standard TV

- 4:3 Letter Box: Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.
- 4:3 Pan-Scan: Select this for a conventional size TV when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)

If you have a wide screen TV or 4:3 standard TV with a wide-screen mode

• 16:9 Wide: You can view the full 16:9 picture on your widescreen TV.

Input Level

Adjusts the level of the input signal.

- Darker: If you feel the screen is too light and you want to make the screen darker.
- Lighter: If you feel the screen is too dark and you want to make the screen lighter.







Black Level

Adjusts the black level of the screen.

- 0 IRE: Select this when you want a darker screen.
- 7.5 IRE: Select this when you want a lighter screen.



■ Black level function is not available in the progressive scan mode.

3D Noise Reduction

- On: Provides a cleaner picture through noise reduction (for recording).
- · Off: Normal



HDMI/DVI Resolution

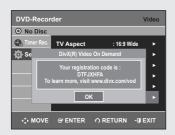
This setting is used when the unit is connected by HDMI or DVI to Display devices (TV, projector, etc).

• **480p** : 720 x 480 • **720p** : 1280 x 720 • **1080i** : 1920 x 1080

- Connect the DVD-R157 to your TV via HDMI or DVI. Set your TV's input to HDMI or DVI.
- Press the P.SCAN button while the unit is in stop mode to select the output resolution.
 - If your TV is connected the HDMI or DVI cable, the output resolution mode changes in the following sequence each time you press the P.SCAN button:

→ 480p → 720p → 1080i.¬

If your TV is connected the AV or component cables(without HDMI/DVI cable), the output resolution mode toggles 480p/480i in turn.



DivX(R) Registration

Please use the Registration code to register your DVD Recorder with the DivX(R) Video On Demand format. To learn more, visit www.divx.com/vod



■ IRE: Short for the Institute of Radio Engineers. An IRE unit is a relative unit of measure equaling 1/140th of the peak-to-peak (p-p) video amplitude.



Parental Control



The Parental Control function works in conjunction with DVDs that have been assigned a rating - which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

- With the unit in Stop mode/No Disc mode, press the MENU button on the remote control.
- 2. Select **Setup** using the ▲ ▼ buttons, then press the **ENTER** or ▶ button.
- Select Parental Control using the ▲ ▼ buttons, then press the ENTER or button.
- 4. The first time the Parental Control is accessed, the 'Create the Password' message will be displayed. Create a 4-digit password using the 0 to 9 buttons on the remote control
- 5. The "Confirm the password" message will be displayed. Enter your password again using the 0 to 9 buttons on the remote control
- Press the ENTER or ► button, and then select On using the ▲ ▼ buttons.

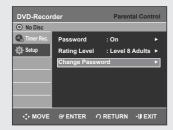
The Parental Control screen appears.



Setting the Rating Level

- 1. Select Rating Level using the ▲ ▼ buttons.
- 2. Press the ENTER or ▶ button.
- 3. Select the desired Level you want using the ▲ ▼ buttons, then press the ENTER or ► button.

For example, if you select up to Level 6, discs that contain Level 7, 8 will not play. A higher number indicates that the program is intended for adult use only.



Changing the Password

- 1. Select Change Password using the ▲ ▼ buttons.
- 2. Press the ENTER or ▶ button.

 The "Enter the password" message will be displayed.
- 3. Enter the 4-digit password using the 0 to 9 buttons on the remote control
- 4. The "Confirm the password" message will be displayed. Enter your password again using the 0 to 9 buttons on the remote control.



■ If you forgot your password, remove the disc. Press the INPUT SEL. and REC MODE buttons on the front panel of the DVD Recorder simultaneously for 5 seconds or more when the power is on. All settings including the password will revert to the factory settings.



This section explains various DVD recording methods.

This unit can record on various types of discs. Before recording, read the following instructions and select the disc type according to your preference.

Recordable discs

This recorder can record on the following discs.

DVD-RAM	DVD-RW	DVD-R	DVD+RW	DVD+R
RAM	RW	DVD R	RW DVD+ReWritable	RW DVD+R

- DVD±RWs and DVD-RAMs are rewritable.
- DVD±Rs are non-rewritable

Compatibility between Samsung and Other manufacturer's Recorders

Disc Types	Recording format	Recording Device	Finalizing	Additional Recording in
				Samsung Recorder
DVD- RAM	VR Mode	Samsung	X	Recordable
		Other Company	X	Recordable
DVD-RW	VR Mode	Samsung	finalized	Not recordable
			not finalized	Recordable
		Other Company	finalized	Not recordable
			not finalized	Recordable
	V Mode	Samsung	finalized	Not recordable
			not finalized	Recordable
		Other Company	finalized	Not recordable
			not finalized	Not recordable
DVD-R	V Mode	Samsung	finalized	Not recordable
			not finalized	Recordable
		Other Company	finalized	Not recordable
			not finalized	Not recordable
DVD+RW	ı	Samsung	Х	Recordable
		Other Company	Х	Not recordable in some cases
DVD+R	-	Samsung	finalized	Not recordable
			not finalized	Recordable
		Other Company	finalized	Not recordable
			not finalized	Not recordable in some cases

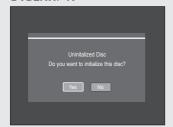


- Finalize
 - This closes the DVD±R/-RW and no additional recording can be done.
- Unfinalize
 - This allows additional recording on a DVD-RW disc originally recorded on the DVD-R157.
 - A DVD-RW disc that has been recorded by DAO(Disc At once) in a PC cannot be unfinalized.
 - A DVD-RW disc that has been recorded in Video Mode of another manufacturer's recorder cannot be unfinalized.
 - A DVD±R disc cannot be unfinalized.

DVD-RAM



DVD±RW/+R



Recording Formats

Since available functions differ depending on the disc type, select a disc that best fits your preference. When you insert an unused disc, the following message appears.

- DVD-RAM : Use after formatting the disc.
- DVD±RW/+R: Use after initializing the disc.
 In case of DVD-RW disc, you can change the mode.Refer to Formatting a Disc on page 70.
- DVD-R: Formatting disc is unnecessary.

DVD-RW(Video mode)/-R

- Chapters will be created automatically when you finalize recording on DVD-R/DVD-RW discs in Video mode.
- Simple editing (erasing titles/changing title name).

DVD-RAM/-RW(VR mode)

- This mode involves multiple editing functions (such as deletion of the whole title, partial deletion of a title, etc.).
- · Various editing options using a created Playlist.

DVD+RW

 You can also make your own chapters on DVD+RWs and edit them using the Chapter Edit menu. (see pages 63~64.)



 You can initialize discs automatically using EZ REC MODE. (See page 46)

Recording Mode

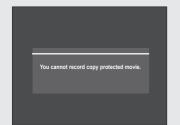
Select one of four record modes by pressing the REC MODE button repeatedly for the desired recording time and picture quality while the unit is in Stop mode.

In general, picture quality improves as the recording time decreases. In FR mode, the most suitable record mode is selected automatically according to the remaining time on the disc and length of the timer recording set.

You can select only one mode from XP, SP, LP and EP for timer recording.

Mode	Characteristic	Recording Times Data Rates
XP	Select when the video	Approx. 1 hour
(high quality mode)	quality is important.	about 8 Mbps
SP (standard quality mode)	Select to record in standard quality.	Approx. 2 hours about 4 Mbps
LP (long recording mode)	Select when a long recording time is required.	Approx. 4 hours about 2 Mbps
EP (extended mode)	Select when a longer recording time is required.	Approx. 6 hours/ about 1.2 Mbps Approx. 8 hours/ about 0.8 Mbps
FR	For timer recording only	Approx 1 to 8 hours
(Flexible Recording)	see page 44.	Approx 0.8 to 8Mbps
·		

 The dual layer DVD±Rs have approximately double capacity than single layer DVD±Rs. (See page 47.)



Unrecordable video

Video with copy protection cannot be recorded on this DVD Recorder. When the DVD Recorder receives a copy guard signal while recording, recording stops and the following message appears on the screen.

Concerning Copy Control Signals

TV broadcasts that contain copy control signals may have one of the following three signal types, COPY-Free, Copy-Once and Copy-Never. If you want to record a copy-once type program, use a DVD-RW disc with CPRM in VR Mode. You can also use DVD-RAM discs.

('O': Supported, '-': Not Supported)

Signal type Media	Copy-Free	Copy-Once	Copy-Never
DVD-RAM (Ver.2.0)	0	O*	-
DVD+RW	0	-	-
DVD+R	0	-	-
DVD-RW (Ver.1.1)	0	-	-
DVD-RW (Ver.1.1) with CPRM VR mode	0	0*	-
DVD-R	0	-	-

When a "Copy Once" recording has been made, recording cannot be done anymore.

◆ Content Protection for Recordable Media (CPRM)

CPRM is a mechanism that ties a recording to the media on which it is recorded. It is supported by some DVD recorders, but not by many DVD players. Each blank recordable DVD has a unique 64-bit media ID etched in the BCA(Burst Cutting Area). When protected content is recorded onto the disc, it can be encrypted with a 56-bit C2 (Cryptomeria) cipher derived from the media ID.

During playback, the ID is read from the BCA and used to generate a key to decrypt the contents of the disc. If the contents of the disc are copied to other media, the ID will be absent or wrong and the data will not be decryptable.

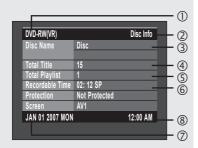
About the INFO Button

- The INFO function allows you to view the current status and progress of playback and recording. When recording on a used disc, make sure that there is enough disc space for recording.
- ◆ Press the INFO button. The disc information display window appears.
- 1.Disc Type
- 2. Current information display status
- 3. Disc Name
- 4. Total Title: Total number of titles
- 5. Total Playlist: Total number of Playlists
- Recordable Time: The longest continuous recording time in each of the record modes(approximate)
- 7. Date : Current date
- 8. Time : Current time



- Items in the display differ depending on the disc type or the recording format.
- With DVD-RAMs or DVD±RWs, you can free up disc space by erasing titles.
- Press the INFO button again with the unit in playback or recording, then you can check the current status.





^{*}compatible with CPRM.





Recording from External Equipment











Before you start

- Check that the disc has enough available space for the recording.
 Adjust the recording mode.
- Press the OPEN/CLOSE button and place a recordable disc on the disc tray.
- Press the OPEN/CLOSE button to close disc tray. Wait until "LOAD" disappears from the front panel display
- 3. Press the INPUT SEL. button to select the input source according to the connection you made. The front panel display changes in the following sequence:

 \rightarrow AV1 \rightarrow AV2 \rightarrow DV

 Press the REC MODE button repeatedly, to select the recording speed(quality).

 \rightarrow SP \rightarrow LP \rightarrow EP \rightarrow XP \cdot

5. Press the REC button.

To pause recording

Press the **PLAY/PAUSE** (ⓐ) button to pause recording in progress. Press the **PLAY/PAUSE** (ⓐ) button again to resume recording.

To stop recording

Press the **STOP** (•) button to stop or finish recording in progress.

 When using DVD-RAM/DVD±RW/ DVD±R discs, the message 'Updating the information of disc. Please wait for a moment.' is displayed.



- You can not change the recording mode and input source during recording.
- Recording will stop automatically if there is no free space left for recording.
- Up to 99 titles can be recorded onto a DVD-RAM/-RW/-R disc, and up to 48 titles onto a DVD+RW/+R disc.
- Recording will stop automatically if a copy protected image is selected.
- If you are using a Cable Box(no antenna), you cannot watch a different cable TV program from the one you're recording.
- DVD-RAM/DVD±RW/ DVD+R discs must be formatted before starting to record. Most new discs are sold unformatted.
- Do not use DVD-R authoring discs with this unit.





Copying from a Camcorder

You may control a Digital Camcorder using the IEEE1394 (DV) interface.











Before you start

Check that the disc has enough available space for the recording. Adjust the record mode. See page 25 to see how to connect the camcorder to your DVD recorder.

- Press the OPEN/CLOSE button, and place a recordable disc on the disc tray.
- Press the OPEN/CLOSE button to close the disc tray. Wait until "LOAD" disappears from the front panel display.
- Press the REC MODE button repeatedly to select the recording speed(quality).

$$\rightarrow$$
 SP \rightarrow LP \rightarrow EP \rightarrow XP $-$

- 4. Press the INPUT SEL. button to select DV. If the input is set to DV, a playback/record menu that enables Digital camcorder control appears on the top of the screen.
- Select the PLAY (►) icon on the upper part of the screen to playback the camcorder and find the starting position to copy.
- 6. To start recording, select REC() icon in the top side of the screen using the ◀ ▶ buttons, then press the ENTER button.

To stop recording

Press the **STOP** (•) button to stop or finish recording in progress.

 When using DVD-RAM/DVD±RW/ DVD±R discs, the message 'Updating the information of disc. Please wait for a moment' is displayed.



- You can not change the record mode and input source while recording.
- Recording will stop automatically if there is no free space left for recording.
- Up to 99 titles can be recorded onto a DVD-RAM/-RW/-R disc, and up to 48 titles onto a DVD+RW/+R disc.
- DVD-RAM/DVD±RW/ DVD+R discs must be formatted before starting to record.
 Most new discs are sold unformatted.
- Do not use DVD-R authoring discs with this unit.
- To access on-screen controls during recording, press the ◀ or ▶ buttons.
- When copying from a camcorder and the end of the tape is reached (no Video), the screen may turn blue or purple.

Making a One Touch Recording (OTR)











You can set the DVD Recorder to record in preset increments by pressing the REC button repeatedly.

- If you want to record from a connected external component, press the INPUT SEL. button to select an appropriate external input(AV1, AV 2 or DV).
- 2. Press the REC button to start recording.
- 3. Press the REC button to adjust the recording time. \rightarrow 0:30 \rightarrow 1:00 \rightarrow 1:30 \rightarrow 2:00 \rightarrow 3:00 \rightarrow 4:00 \rightarrow off



■ The timer counter decreases to 0:00, then the DVD Recorder stops recording.

After finishing recording, the DVD Recorder will turn off automatically.

To stop recording

Press the ${\bf STOP}(\ \odot\)$ button. The message "Press STOP button once more to cancel Timer Record." is displayed.

Press the **STOP**(•) button again to stop recording.









Setting a Timer Recording











You need to set the Clock (Setup – Clock Set) before proceeding with a timer recording. (See page 31)

- Press the OPEN/CLOSE button, and place a recordable disc on the disc tray.
- Press the OPEN/CLOSE button to close the disc tray. Wait until "LOAD" disappears from the front panel display. If an unused DVD-RW disc is inserted, whether to initialize or not will be asked first. (See page 37)
- Press the MENU button in Stop mode. You can also set a timer recording via the TIMER button.
- Press the ▲ ▼ buttons to select Timer Rec., and then press the ENTER or ► button.
- Press the ▲ ▼ buttons to select Timer Record, and then press the ENTER or ► button.

The Timer Record Input items are displayed.

- 6. Fill in the items using the ▲ ▼ ◀ ▶ buttons.
 - : Moves to the previous/next item,
 - ▲ ▼or 0~9: To set or change items in the Scheduled Record List Menu.
 - Source: Select the video input source (AV 1, AV 2) you want to make a timer recording of.
 - Date: Date that the timer recording starts
 - There are three options when setting the date. see below:
 - ①To make a recording on a specific date, press the ▲ ▼ or number buttons until the date you want appears.
 - ②To make a recording at the same time every day (MON-FRI), press the ▲ ▼ buttons until MON-FRI appears.
 - ③To make a recording on a specific day of the week(Every SUN -Every SAT), press the ▲ ▼ buttons until Sun's....Sat's appears.
 - Start/End Time: Start and end time of the timer recording
 - Mode (Record mode)

XP : Approx. 1 hour

SP: Approx. 2 hours

LP : Approx. 4 hours

EP: Approx. 6 hours or 8 hours

FR: See page 44.



■ When you are recording at EP mode on a DVD-RW(V)/-R disc, it may not record the full 6 or 8 hours because the unit uses the VBR(Variable Bit Rate) ENCODING system.

For example, if you record a Program with a lot of action, it uses a higher bit rate which in turn consumes more disc memory.

- 7. Press the ENTER button.
 - (①) and Timer Set will appear on the front panel display. This means that a timer recording is set.
 - Recording is automatically performed when the set time is reached.



■ If the timer settings overlap

- The first program has priority. After recording of the first program is complete, the second program starts being recorded.
- The timer recording time may differ from the set time depending on the disc and the overall timer recording status (for example, recording times overlapping, or when the previous recording ends within 3 minutes of the start of the next recording.)
- ① will start blinking if Timer Recording is not ready to start.

Flexible Recording (for Timer Recording only)











In FR mode, the most suitable recording mode is selected automatically, according to the remaining time on the disc and the length of the timer recording set.

The FR mode recording setup is the same as Timer Recording setup. When setting the Rec mode in step 6, select FR Mode. (See page 43)

Editing the Scheduled Record List













- 1. Press the MENU button in STOP mode.
- Press the ▲ ▼ buttons to select Timer Rec., and then press the ENTER or ► button.
- 3. Press the ▲ ▼ buttons to select Scheduled Record List, and then press the ENTER or ► button.
- 4. Press the ▲ ▼ buttons to select the number of the Scheduled Record List you want to edit, and then press the ENTER or ► button. The Edit and Delete items are displayed.
- Press the ▲ ▼ buttons to select Edit, and then press the ENTER or ► button.

The Timer Record Input item is displayed. Edit the items you want to modify. See the Timer Record section for more information on Timer Record Input items. (See page 43)

- **7.** Press the **MENU** button after the operation is finished. The menu screen will disappear.



♦ MOVE @ ENTER • RETURN • EXIT



Deleting the Scheduled Record List











You can delete timer record list using the scheduled record list menu.

- 1. Press the **MENU** button in Stop mode.
- Press the ▲ ▼ buttons to select Timer Rec., and then press the ENTER or ► button.
- Press the ▲ ▼ buttons to select Scheduled Record List, and then press the ENTER or ► button.
- 4. Press the ▲ ▼ buttons to select the number of the timer recording you want to delete, and then press the ENTER or ► button. The Edit and Delete items are displayed.
- **5.** Press the ▲ ▼ buttons to select **Delete**, and then press the **ENTER** or ▶ button.
- Press the ◀ ▶ buttons to select Yes, and then press the ENTER button.
 The selected entry will be deleted from the list.



■ You can not delete programs that are currently being recorded.





Recording the Scheduled Record List

When the start time in the Scheduled Record List is reached while the unit is powered off, the unit will automatically power on and start recording.

- 1. When the scheduled recording is operating, the program being recorded will not display on TV.
 - Power on TV using the TV remote control.
 - Power off TV using the TV remote control if you don't want to see the program being recorded.

To stop recording

Press the **STOP** (\odot) button. The message "Press STOP button once more to cancel Timer Record." is displayed.

Press the **STOP** () button again to stop recording.



- If a copy protection signal is received during recording, recording will stop.
- If there is no free disc space or the disc is not recordable, recording will not operate. (You can record after replacing the disc.)

Recording on Free Space



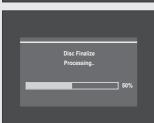
This function is only available with DVD+RW discs. If existing titles are deleted, free space will be created. When you operate the free space function, on-air TV images will appear on the left side of the title list.

- Press the TITLE LIST button in Stop mode. The Title List screen is displayed.
- Press the ▲ ▼ button to select Free Space, then press the ENTER or
 button. On-air TV images will appear on the left side of the title list.
- 3. Press the ENTER button.









EZ REC MODE











This function allows you Initialize and Finalize a disc automatically.

- With the unit in Stop/No Disc mode, press the EZ REC MODE button on the remote control.
- Press the ◀ ► buttons to select On, and then press the ENTER button

The EZ REC MODE is set up.

- Insert a disc.If the disc is new, it will initialize automatically.
- 4. Press the REC button.
- EZ REC MODE will Automatically Finalize the disc under the following conditions.
- When you press the OPEN/CLOSE button on your DVD Recorder after recording on at least 30% of the disc. The tray will open after the disc has been finalized.
- When the disc is full, it will finalize automatically and the Recorder will remain in stop mode.
- When you make a timer recording and it occupies at least 30% of the disc, the disc will finalize automatically and the Recorder will power off.
 Please note that auto finalization will not work if the Recorder has more than one Timer Recording set in the Scheduled Record List.



- If you insert a new DVD-RW disc, it will be formatted in V mode after auto initializing.
- If you select off, you must initialize (see page 37) and finalize the disc manually in the Disc Manager menu.(see page 71)
- The length of Recording is different according to recording mode. (see page 38)



This section introduces basic playback functions and playback by disc type.

Read the following information before playing a disc.

Region code (DVD-Video only)



Both the DVD recorder and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play. The Region Number for this recorder is described on the rear panel of the recorder.

Logos of Discs that can be played



Disc types that can be played

Disc Types Logo Content Disc Shape Max. Playing Time Single sided(5") 240min Double sided(5") 480min Double sided(3.5") 160min Double sided(3.5") 160min Double sided(3.5") 20min Double sided(3.5") 20min Double sided(3.5") 20min Double sided(3.5") 20min Single sided(3.5") - S					. ,
DVD-VIDEO				Disc Shape	Max. Playing Time
VIDEO AUDIO				Single sided(5")	240min
Double sided(3.5") 160min	DVD-	DVD-	VIDEO	Double sided(5")	480min
AUDIO-	VIDEO	VIDEO	AUDIO	Single sided(3.5")	80min
DVD-RW VIDEO DVD-RW VIDEO AUDIO DVD-RW DVD-RW VIDEO AUDIO DVD-RW VIDEO AUDIO DVD-RW VIDEO AUDI				Double sided(3.5")	160min
DVD-RW	AUDIO-	പ്പുള്ള	ALIDIO	Single sided(5")	74min
Images Single sided(3.5") -	CD	DIGITAL AUDIO	AUDIO	Single sided(3.5")	20min
MP3	IDEC		JPEG	Single sided(5")	-
MPEG4	JF LG		Images	Single sided(3.5")	-
Name	MD3			Single sided(5")	-
DVD-RM	IVIF J		Audio	Single sided(3.5")	-
DVD-RW VIDEO AUDIO	MDECA		MPEG4	Single sided(5")	-
DVD-RAM VIDEO AUDIO Double sided(5") (9.4GB) DVD-RW VIDEO AUDIO DUal Layer(5") (8.5GB) DVD-RW VIDEO AUDIO	IVIF LO4		Movie	Single sided(3.5")	-
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DVD-RW DVD-RW VIDEO AUDIO Double sided(5") (9.4GB) VIDEO AUDIO Double sided(5") (9.4GB) Thr (XP: Excellent Quality) (2 or 16 ins (EP:Extended)) (4 ins (EP: Long Playback)) (4 ins (EP: Long Playback)) (4 ins (EP: Extended)) (4 ins					2hrs (SP: Standard Qualit
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12 or 16hrs (EP:Extended) 1hr (XP: Excellent Quality) 2hrs (SP: Standard Qualit 4hrs (LP: Long Playback) 6 or 8hrs (EP:Extended) 2hrs (SP: Standard Quality) 2hrs (SP: Standar					8hrs (LP: Long Playback)
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DVD-RW DVD+RW DVD-RW DVD-RW	DVD-RW	RW		5" (4.7GB)	
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DVD+RW DVD-RW DVD+RW DVD-RW DVD-RW			VIDEO		
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(8.5GB) 8nrs (LP: Long Playback)					
11 or 15hrs (EP:Extended)					
					11 or 15hrs (EP:Extended)

Discs that cannot be played

- DVD-Video with a region number other than "1" or "ALL"
- 5" 2.6 GB and 5.2 GB DVD-RAM
- 3.9 GB DVD-R Disc for Authoring.
- A DVD±R/DVD-RW(V) disc which has been recorded and not finalized in a different manufacturer's recorder.
- PAL discs
- DVD-ROM/PD/MV-Disc, etc.
- Video CD/CVD/SVCD/CD-ROM/CDV/CD-G/CD-I



- This DVD recorder can only operate with discs that are compatible with DVD-RAM Standard Version 2.0.
- Playback and/or recording may not work for some types of discs, or when specific operations, such as angle change and aspect ratio adjustment, are being performed. Information about the discs is written in detail on the box. Please refer to this if necessary.
- Do not allow the disc to become dirty or scratched.
 Fingerprints, dirt,dust,scratches or deposits of cigarette smoke on the recording surface may make it impossible to use the disc for recording.
- DVD-RAM/±RW/±R discs may not be able to play on some DVD players, depending on the player, disc and the condition of the recording.
- Discs with PAL programs recorded on them can not be recorded on using this product.

Playing a Disc

- **1.** Press the **OPEN/CLOSE** button. The tray opens.
- Place a disc gently into the tray with the disc's label facing up. For DVD-RAM discs, insert the printed side facing up.
- 3. Press the OPEN/CLOSE button to close the disc tray.
 - Your DVD Recorder closes the disc tray and loads the disc automatically.
 - When the recorder is powered on and a disc is in the tray, the unit will be activated and wait in Stop mode.
 - Press the **PLAY(**) button to start playback.
 - If you want the unit to play automatically when it is powered off with a disc in the unit, power on with the PLAY(①) button.
- 4. Press the STOP(•) button to stop playback.



When you stop playing the disc, the recorder remembers where you stopped. When you press the PLAY button again, it will pick up where you left off. (unless the disc is removed, the recorder is unplugged, or if you do not press the STOP button twice.) This function is only applicable to DVD-VIDEO, DVD-RAM, DVD±RW, DVD±R or audio CDs (CD-DA).



- Do not move your DVD recorder while playing, as this may cause damage to the disc.
- Make sure to press the OPEN/CLOSE button to open or close the disc tray.
- Do not push the disc tray while it is being opened or closed, as this may cause a product malfunction.
- Do not place foreign materials on or in the disc tray.
- Some functions may perform differently or be disabled depending on the disc type. If this occurs, refer to the instructions written on the disc case.
- Be especially careful that children's fingers are not caught between the disc tray and the tray chassis when it closes.
- You must only insert one DVD disc at a time. Inserting two or more discs will not allow playback and may cause damage to the DVD player.

Using the Disc Menu & Title Menu

Some discs contain a dedicated menu system that allow you to select special functions for the title, such as chapters, audio track, subtitles, film previews, information on characters, etc.

For DVD-VIDEO discs



Disc Menu: Press the DISC MENU button to enter the disc's menu.

- Move to the setup menu related to the playback operation.
- You can select the audio language and the subtitles provided by the disc.

Title Menu: Press the **TITLE MENU** button to move to the title menu of the disc.

 Use this button if the disc contains more than one title. Some type of discs may not support the title menu function.

For DVD-RAM/DVD±RW/±R discs











Title List: Press the **TITLE LIST** button. The Title List is simply a list of titles on a disc. If a title is deleted, that title cannot be played again.

PLAY LIST: Press the PLAY LIST button. A playlist is a custom-made list of titles. When one playlist is played, only the titles within the playlist will play and then stop. Even if that playlist is deleted, the original recording will not be deleted. (only VR mode)

Using the playback related buttons

Searching through a Chapter or Track

















DVD-VIDEO/ DVD-RAM/ DVD±RW/DVD±R	 ► Fast 1(X 2) → ► Fast 2(X 4) → ► Fast 3(X 8) → ► Fast 4(X16) → ► Fast 5(X 32) → ► Fast 6(X128) → ► Fast 1(X 2) 	
MPEG4	 Fast 1 → ► Fast 2 → ► Fast 3 → Fast 1 	
AUDIO CD (CDDA)	 Fast ×2 → ► Fast ×4 → Fast ×8 → ► Fast ×2 	

During playback, press the **SEARCH**(\odot \odot) button on the remote control.

- You can scan the program in reverse.
- Press and hold the SEARCH(⊙ ⊙) button, playback is done at the default speed of fast 2.
- If you release the SEARCH(
 ⊕
 ⊕) button, playback is performed at a normal speed. (Except CD-DA)
- To return to normal playback speed, press the **PLAY**() button.



- No sound is heard during Scan(Search) mode except fast 1 playback (1.7X speed) mode.
- For CD(CD-DA), You can hear sound during Scan mode.
- You cannot hear audio while scanning an MPEG4.
- The speed marked while scanning may be different from the actual playback speed.

Searching Chapters or Tracks

During playback, press the **SKIP**() button on the remote control.

- If you press the SKIP() button, it moves to the beginning of the chapter or track or marker (DVD-RAM,DVD-RW(VR mode).)
 Pressing the button once again within 3 seconds returns to the beginning of the previous chapter or track or marker (DVD-RAM, DVD-RW(VR mode).)
- If you press the SKIP() button, it moves to the next chapter or title or marker (DVD-RAM,DVD-RW (VR mode).)

Slow Motion Play













In Pause mode, press the **SEARCH(**) button on the remote control.

• If you press the SEARCH(\odot) button, $| \bullet |$ Slow 1 \rightarrow | \bullet Slow 2 \rightarrow | \bullet Slow 3 \neg

• If you press the SEARCH(\odot) button, \blacktriangleleft Slow 1 \rightarrow \blacktriangleleft Slow 2 \rightarrow \blacktriangleleft Slow 3 \lnot

- Press and hold the SEARCH(→) button during pause, and the disc will play slowly at a 1/2 speed. If the button is released, the pause operation will resume.
- To return to normal speed playback, press the **PLAY(** ••) button.



- The speed marked in this function may be different from the actual playback speed.
- Slow motion operates only in the forward direction on MPEG4 discs.

Step Motion Play













Press the STEP(•) button on the remote control in the still mode.

- Each time the button is pressed, a new frame will appear.
 If you press the STEP(①) button, the previous frame will be activated.
 If you press the STEP(②) button, the next frame will be activated.
- To return to normal speed playback, press the **PLAY(**) button.



Step motion operates only in the forward direction on MPEG4 discs.









Using the ANYKEY Button

The ANYKEY function allows you to easily search for a desired scene by accessing title, chapter, track, and time. You can also change the subtitle and audio settings and set some features including Repeat, Angle, and Zoom.

Moving to a Desired Scene Directly













If you want to move to a certain title, chapter or time use this function.

- 1. Press the ANYKEY button during playback.
- 2. Press the ▲ ▼ buttons to select the Title, Chapter or Time.
- Press the ◀ ► buttons or number (0~9) buttons to select the desired scene and then press the ENTER button.
 In case of searching a time, Enter the time in the sequence of hours, minutes, seconds using the number buttons. ◀ ► are not available.



- The Time Search function does not operate with some discs.
- To make the screen disappear, press the ANYKEY again.

Playing Repeatedly

- 1. Press the ANYKEY button during playback.
- 2. Press the ▲ ▼ buttons to select Repeat and press the ◀ ▶ buttons to select the Title or Chapter you want to play repeatedly.
- 3. Press the ENTER button.



 DVD-RAM, DVD-RW(VR mode), unfinalized DVD±R and unfinalized DVD-RW (Video mode) do not repeat a chapter.

Playing a Certain Section Repeatedly













- 1. Press the ANYKEY button during playback.
- Press the ▲ ▼ buttons to select Repeat and press the ► button to select A-B.
- 3. Press the ENTER button.
- 4. Press the ENTER button at the point where you want the repeat play to start (A) and press it again at the point where you want the repeat play to stop (B).

Repeat playback of the A-B section starts.



- If you set point (B) before five seconds has lapsed, the prohibition mark (⊘) will appear.
- You can also activate Normal Playback by pressing the CANCEL button.
- Audio CDs(CD-DA) and MP3 discs do not support the Repeat A-B function.



Selecting the Subtitle









Subtitle languages may not work depending on the disc type. This is only available during playback.

- 1. Press the **ANYKEY** button during playback.
- 2. Press the ▲ ▼ buttons to select **Subtitle** and press the ◀ ► buttons to select the desired subtitle language.



- If the subtitles overlap, disable the caption function on your TV.
- Some discs allow you to select the language for the disc menu only.
- To make the screen disappear, press the **ANYKEY** again.



Selecting the Audio language









Audio languages may not work depending on the disc type. This is only available during playback.

- 1. Press the ANYKEY button during playback.
- 2. Press the ▲ ▼ buttons to select Audio and press the ◀ ▶ buttons to select the desired audio language.



- Audio languages may be different because they are disc-specific.
- Some discs allow you to select the audio language for the disc menu only.
- To make the screen disappear, press the **ANYKEY** again.

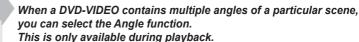


Using one Touch button

By pressing the audio button, you can access the Audio function directly.

Changing the Camera Angle





If the disc contains multiple angles, the ANGLE mark appears on the screen.

- 1. Press the **ANYKEY** button during playback.
- 2. Press the ▲ ▼ buttons to select **Angle** and press the ◀ ▶ buttons or number(0~9) buttons to select the desired angle.



- This function is disc-dependent, and may not work all DVDs.
- This function does not work when a DVD has not been recorded with a multicamera angle system.
- To make the screen disappear, press the **ANYKEY** again.





Zooming-In













- 1. Press the ANYKEY button during playback or pause.
- Press the ▲ ▼ buttons to select Zoom, and then press the ENTER button.
 - (a) will be displayed.
- 3. Press the ▲ ▼ ◀ ▶ buttons to move to the area you want to enlarge.
- **4.** Press the **ENTER** button.

normal size \rightarrow 2X \rightarrow 4X \rightarrow 2X \rightarrow normal size

Using Bookmarks













This feature lets you bookmark sections of a DVD or DVD-R/-RW (V mode), so you can quickly find them.

Setting Bookmarks

- 1. Press the MARKER button during playback.
- 2. Press the **MARKER** button during playback. Press the **ENTER** button when the desired scene appears.

The number 1 is displayed and the scene is memorized.

- 3. Press the ◀ ▶ button to move to the next position.
- 4. Press the ENTER button when the desired scene appears. The number 2 is displayed and the scene is memorized.
 - Repeat above to bookmark other positions.
 - You can bookmark up to 10 scenes.



- When the disc tray is opened and then closed, bookmarks will disappear.
- The button display may differ depending on the disc type.



- 1. Press the MARKER button during playback.
- 2. Press the ◀ ▶ buttons to select a bookmarked scene.
- Press the ENTER or PLAY() button to start playing from the selected scene.





Clearing a bookmark

- 1. Press the MARKER button during playback
- 2. Press the ◀ ▶ buttons to select a bookmarked scene.
- 3. Press the **CANCEL** button to delete the selected bookmark.



Using Markers





(VR mode)

Setting Markers

- 1. Press the MARKER button during playback.
- Press the ENTER button when the desired scene appears.The number 01 is displayed and the scene is memorized.
- 3. Press the ◀ ▶ button to move to the next position.
- **4.** Press the **ENTER** button when the desired scene appears. The number 02 is displayed and the scene is memorized.
 - DVD-RAM or DVD-RW (VR Mode) discs have the Marker function instead of the Bookmark function.

The Marker function allows you to mark up to 99 scenes. Since the scenes may be displayed as many different pages, numbering is necessary.

If a disc in use is encoded with Disc Protect, Markers cannot be set or deleted. Only playback is available.



◆ Playing Back a Marker

- 1. Press the MARKER button during playback.
- 2. Press the ◀ ▶ buttons to select a bookmarked scene.
- 3. Press the ENTER or PLAY() button to start playing from the selected scene.
 - If you press the SKIP(⊕) button, it moves to the beginning of the marker. Pressing the button once again within 3 seconds returns to the beginning of the previous marker.
 - If you press the $\textbf{SKIP}(\ \boxdot)$ button, it moves to the next marker.

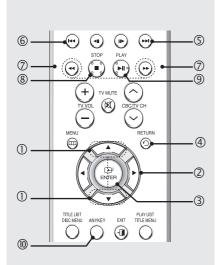


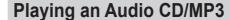


♦ Clearing a Marker

- 1. Press the MARKER button during playback.
- Press the

 buttons to select a bookmarked scene.
 Press the CANCEL button to delete the selected bookmark.
 - When a marker is cleared while DVD-RAM/DVD-RW(VR mode) is playing, marker numbers will change. For example, if the 7th marker is cleared after ten markers are registered, the marker numbers after the eighth will automatically move ahead by one and the 8th marker becomes the 7th.

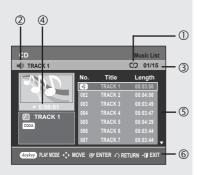




Buttons on the Remote Control used for CD playback

- 1. ▲ ▼ : Selects a track (song).
- 2. ▶ : Plays the selected track (song).
- 3. ENTER() button : Plays the selected track (song).
- RETURN(②) button: Moves to the folder to which the current song belongs.
- 5. SKIP() button : Plays the next track.
- 6. SKIP(() button : Returns to the beginning of the current track when pressed during playback. If pressed again, your DVD recorder moves to and plays the previous track. If you press this button within three seconds after playback starts, the previous track will be played. If you press this button after three seconds, the current track will be replayed from the beginning.
- **7. SEARCH(** ⊕ / ⊕) **button** : Fast Play (X2, X4, X8)
- **8. STOP(**) : Stops a track(song).
- 9. PLAY/PAUSE()): Plays a track(song) or pauses playback.
- 10. ANYKEY: To select the sub menu on screen display (Repeat or Play Option).

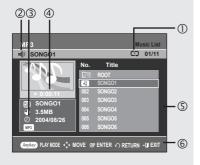




Playing an Audio CD(CD-DA)

- Insert an audio CD (CD-DA) into the disc tray.
 The audio CD menu appears and the tracks (songs) are played automatically.
- Press the ▲▼ buttons to select the track you want to hear, and then press the ENTER button or ► button.
- ◆ Audio CD(CD-DA) Screen Elements
- 1. PLAY MODE icon
- Current track (song): Displays the number of the track currently being played.
- 3. Displays the current play index and total track number.
- 4. Shows the operating state of a disc and the current playback time.
- 5. Displays the track list (song list) and the playing time of each track.
- 6. Button display.







- 1. Insert an MP3 disc into the disc tray.
 - And press the $\blacktriangle \blacktriangledown$ buttons to select **Disc Navigation**, and then press the **ENTER** or \blacktriangleright button.
- Press the ▲ ▼ buttons to select Music, and then press the ENTER or ► button.
 - The MP3 menu appears and the tracks(songs) are played automatically.
- Press the ▲ ▼ buttons to select the track (song) you want to hear, and then press the ENTER button or ► button.

◆ MP3 Screen Elements

- 1. PLAY MODE icon
- 2. Current track (song): Displays the name of the track being played.
- 3. MP3 file information.
- 4. Shows the operating state of a disc and the current playback time.
- 5. Displays the information for the folder and its tracks.
- 6. Button display.

Playing Repeatedly







key) PLAYMODE 💠 MOVE 🞯 ENTER ເ∩ RETURN +[] EXIT

- Press the ANYKEY button during playback. The play mode window appears.
- Select the desired repeat mode using ◀ ▶ buttons, and then press the ENTER button.
 - CD Track : Selected track is played repeatedly.
 - AD Disc : Inserted disc is played repeatedly.
 - Folder(mp3 only): Tracks in the current folder are played repeatedly.

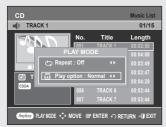
To return to normal playback

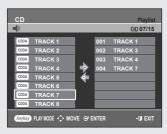
Select Off in play mode window using
 ► buttons, and then press the ENTER button.



Play Option Mode

- During Stop, Press the ANYKEY button. The Play option will be highlighted.
 - During Playback, Repeat Mode will be highlighted.
- Select a desired play option (Normal, Random, Intro or Playlist) using the ◀ ▶ buttons. Press the ENTER button.
 - Normal: Tracks on a disc are played in the order in which they were recorded on the disc.
 - Random[R]: The Random option plays the disc's tracks in random order. After a random list is generated and played completely, another random list is generated and played. Random Play is continued until the play option is changed.
 - Intro[I]: The first 10 seconds of each track will be played. If you want to listen to the music that you have selected, press the ENTER button or PLAY() button. The play option will be changed to Normal Play. When Intro Play is completed, Normal Play is performed.
 - **Playlist**: The Playlist playback option allows you to select the order in which you want tracks to play.





To Program Tracks

You can register a maximum of 30 tracks in the playlist.

- Press the ANYKEY button during playback, then select Play option using ▲ ▼ buttons.
- 2. Select Playlist using the ◀ ▶ buttons, and then press the ENTER button

The Playlist screen will appear.

Select tracks in the order in which you want them to play using the $\blacktriangle \nabla$ buttons.

Press the ENTER button.

If there is a track on your playlist you wish to remove. Press the ▶ button, then press the ▲ ▼ buttons to select the track you wish to remove, then press the CANCEL button. The selected track will be removed.

3. Press the **PLAY(** ①) button to playback the playlist.



Playing a Picture CD

- 1. Insert an JPEG disc into the disc tray.
- Press the ▲ ▼ buttons to select Disc Navigation, and then press the ENTER or ► button.
- Press the ▲ ▼ buttons to select Photo, and then press the ENTER or ▶ button.
- **4.** Press the ▲ ▼ ◀ ▶ buttons to select a picture.
 - To see the next 8 pictures, press the **SKIP**(\odot) button.
 - To see the previous 8 pictures, press the **SKIP**() button.







- **5-1.** If you press the **PLAY(** •) button, the Slide show screen will appear. The picture interval (Slide show speed) must be set.
- 5-2. Press the ENTER button with a picture selected in the Album screen and select a display mode (Album screen (⊞), Slide show (ଢ), Rotation (ଢ) or Zoom (ℚ)) using the ◀▶ buttons, then press the ENTER button.
- E : Returns to the Album screen.
- : The unit enters slide show mode. Before the slide show can begin, the picture interval (Slide show speed) must be set.
- : Each time the ENTER button is pressed, the picture rotates 90 degrees clockwise.
- Press the ANYKEY button to display or clear menus.

Playing an MPEG4 Disc



An MPEG4 File is used to contain audio and video data.

An MPEG4 File with following extensions can be played.

- .AVI, .DIVX, .avi, .divx
- 1. Insert a MPEG4 Disc into the disc tray.
- Press the ▲ ▼ buttons to select the Disc Navigation, and then press the ENTER or ► button.
- Press the ▲ ▼ buttons to select the DivX, and then press the ENTER or ► button.
- Press the ▲▼ buttons to select the avi file (DivX), then press the ENTER, ► or PLAY button.
- 5. When an MPEG4 file is being played, you can use following functions. Pressing the STOP button once during playback will display the file list, pressing the button again will exit the menu screen.

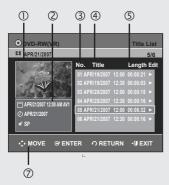
◆ MPEG4 Function Description

Function	Description
Skip Scene	During playback, press the SKIP (⊕ or ⊕) button, it moves forward or backward 5 minutes.
Search Scene	During playback, press the SEARCH (⊙ or ⊙) button and press again to search at a faster speed. (2X, 4X, 8X)
Slow Motion	In pause or step mode, press the SEARCH (\odot) button on the remote control. (1/8X, 1/4X, 1/2X)
Step Motion	Press the $\mathbf{STEP}(\ \odot\)$ button on the remote control in still mode.



- This DVD Recorder can play the following video compression formats, -MPEG4 Codec format :DivX 3.11 DivX 4.x DivX 5.x -Audio format :.MP3,.MPEG,.PCM,.AC3,.DTS
- Supported subtitle file formats:.smi,.srt,.sub,.psb, .txt (The subtitle file should have exactly the same name to corresponding MPEG4 file name)
- Some MPEG4 files created on a personal computer may not be able to be played back.
 This is why Codec Type, Version and Higher resolution over specification is not supported.







Playing the Title List









Follow these instructions to play back a scene from the Title List.

- Press the TITLE LIST button. The Title List screen is displayed.
 Or use the MENU button.
 - Press the **MENU** button.
 - Press the ▲ ▼ buttons to select Title List, and then press the ENTER or ► button twice.
- 2. Press the ▲ ▼ buttons to select Title.
 - Press the **PLAY** button. The selected entry (title) will be played back.
 - Press the ENTER or ▶ button. The Edit menu is displayed on the right.
 (Rename, Delete, Edit, Protection : See pages 60~64)
- To stop playing the title, press the STOP() button.
 To return to the title list screen, press the TITLE LIST button.

Title List Screen Elements

- ① Playback screen for recorded entries
- ② Information window for the selected entry : Title name, recording date, lock status, record mode
- ③ Recorded entry No.
- 4 Recorded entry title
- ⑤ Recording length (i.e., the playing time)
- 6 Title list edit items

Play: Plays the selected entry.

Rename: Renames the title of a selected entry. **Delete**: Deletes the selected entry from the list.

Edit: Deletes a section.

Protection: Locks or unlocks the selected entry.

Button display



- By pressing the **ANYKEY** button, you can play the desired title.
- This may depend on the the disc type.
- DVD±R/DVD-RW(Video) has limited editing function.(See page 36)



This section introduces basic functions of DVD editing.

Title List

A title is a section of recorded video and audio.

The Title List shows a list to help you select a title.

If one title is deleted from the title list, that title cannot be played again.

Playlist

This refers to a unit of playback, which is made by selecting a desired scene in the entire Title List.

When one playlist is played, only the scene selected by the user will play and then stop. Since only the information necessary for playing a desired scene is included in a playlist, even if that playlist is deleted, the original recorded title will not be deleted.

Recording or editing might not be completed if an error such as a sudden power failure occurs.

Please be aware that material that has been damaged cannot be retrieved.

Basic Editing (Title List)

Renaming (Labeling) a Title











Follow these instructions to rename a title list entry, i.e., to edit the title of a recorded program.

- Press the TITLE LIST button. The Title List screen is displayed.
 Or use the MENU button.
 - Press the **MENU** button.
 - Press the ▲ ▼ buttons to select Title List, and then press the ENTER or ► button twice.
- Press the ▲▼ buttons to select an entry you want to rename from the Title List, and then press the ENTER or ► button.
- Press the ▲ ▼ buttons to select Rename, and then press the ENTER or ► button.

The Rename screen is displayed.

- Select the desired characters using the ▲ ▼ ◀ ► buttons, press the ENTER button.
 - Back Space : Deletes the character before the cursor.
 - **Space**: Enters a blank and moves the cursor one forward (to the right).
 - **Delete**: Deletes the character at the cursor position.
 - Clear : Deletes all the character inputs.
 - · Save : Registers the character inputs.
 - The maximum number of characters that can be entered is 31. All 31 characters can be displayed by pressing the INFO button twice.
- Press the ▲ ▼ ◄ ▶ buttons to select Save, and then press the ENTER button.

The changed title name is displayed on the title item of the selected Title list entry.









O DVD-RW(VR) H3 Sports(A1) No. Title Length Edit 01 Drama 00:00:21 ➤ 02 Music 00: Play 03 Sports (A1) 04 Movie 00! Delete 05 Sports(A1) 0 APR/21/2007 06 Edit 00: Edit

⊘ RETURN



⊕ ENTER

Locking (Protecting) a Title











Follow these instructions to lock an entry to protect it from accidental deletion.

- Press the TITLE LIST button. The Title List screen is displayed.
 Or use the MENU button.
 - Press the MENU button.
 - Press the ▲ ▼ buttons to select Title List, and then press the ENTER or ► button twice.
- Press the ▲ ▼ buttons to select an entry you want to protect from the Title List, and then press the ENTER or ► button.
- Press the ▲ ▼ buttons to select Protection, and then press the ENTER or ► button.
- 4. Press the

 buttons to select On, and then press the ENTER button. The lock icon on the information window for the selected entry changes to the locked status. (

 c → a)
 If you want to unlock the title entry select the protected title and set the

If you want to unlock the title entry, select the protected title and set the Protection function to **Off**.

Deleting a Title











Follow these instructions to delete an entry from the Title List.

- Press the TITLE LIST button. The Title List screen is displayed.
 Or use the MENU button.
 - Press the MENU button.
 - Press the ▲ ▼ buttons to select Title List, and then press the ENTER or ► button twice.
- Press the ▲ ▼ buttons to select an entry you want to delete from the Title List, and then press the ENTER or ► button.
- Press the ▲ ▼ buttons to select Delete, and then press the ENTER or ▶ button.

You will be prompted with the confirmation message.

DVD-RAM, DVD-RW(VR mode): Since Playlist is present, the message "Do you want to delete?(Related playlists may be deleted.)" is displayed

DVD-RW(Video mode), DVD+RW, DVD±R: Since Playlist is not present, the message "Do you want to delete?" is displayed.

- The message may be different depending on the type of disc.
- **4.** Press the **◄** ▶ buttons to select **Yes**, and then press the **ENTER** button.



- You cannot delete a protected entry. If you want to delete a protected entry, select "Off" in the Title Protection menu.
- Once an entry is deleted from the Title List, it cannot be recovered.
- Once a DVD±R or DVD-RW is finalized, it cannot be deleted.
- With DVD±R, titles are only deleted from the menu, however, the Title remains physically on the disc.









Deleting a Section of a Title





Follow these instructions to delete a section of a Title List entry.

- Press the TITLE LIST button. The Title List screen is displayed.
 Or use the MENU button.
 - Press the MENU button.
 - Press the ▲ ▼ buttons to select Title List, and then press the ENTER or ► button twice.
- Press the ▲ ▼ buttons to select an entry you want to edit from the Title List, and then press the ENTER or ► button.
- Press the ▲ ▼ buttons to select Edit, and then press the ENTER or ► button.
- **4.** Press the **ENTER** button at the starting point.

 The image and starting point time are displayed on the section deletion starting point window.
- Press the ENTER button at the end point.The image and end point time are displayed in the Section deletion ending point window.
- Press the

 buttons to select Delete, and then press the ENTER button.

The message "Do you want to delete? (Deleted part will not be restored)" is displayed.

Press ◀ ▶ buttons to select Yes, and then press the ENTER button.
 The selected section is deleted.

To return to the Title List screen, press the ◀ ► buttons to select **Return**.

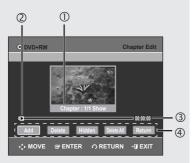
◆ Edit Title List Screen Elements

- 1 Playback bar
- 2 Title List No.
- 3 Section deletion starting point window and time
- 4 Section deletion end point window and time
 - Select the start and end points of the section you want to delete using the playback related buttons.
 - Playback related buttons (\bigcirc , \bigcirc , \bigcirc , \bigcirc , \bigcirc , \bigcirc , \bigcirc).



- The length of the section to be deleted must be at least 5 seconds long.
- If the length of the section to be deleted is less than 5 seconds, you will be prompted with the message "The range is too short."
- If the end time precedes the starting point, you will be prompted with the message "End point cannot be marked earlier than start point".
- The section cannot be deleted when it includes a still picture.









Editing a Chapter



DVD+RWs don't support the Auto Chapter Creator function. You can make your own chapters on DVD+RWs and edit them using the Chapter Edit menu.

- Press the TITLE LIST button. The Title List screen is displayed.
 Or use the MENU button.
 - Press the MENU button.
 - Press the ▲ ▼ buttons to select Title List, and then press the ENTER
 or ► button twice.
- Press the ▲ ▼ buttons to select a title containing a chapter you want to edit, then press the ENTER or ► button.
- Press the ▲ ▼ buttons to select Chapter Edit, then press the ENTER or ► button.

The Chapter Edit screen is displayed.

♦ Chapter Edit Screen Elements

- 1. Current chapter number and status
- 2. Playback bar
- 3. Playtime
- 4. Chapter Edit menu

Adding a chapter

- 4. Select the point where you want to add a chapter using the playback related buttons, then press the ENTER button at that point. Each time you press the ENTER button, a new chapter will be added.

 Playback related buttons: (⊕, ⊕, ⊕, ⊙, ⊙).
- Press the ◀ ► buttons to select Return, and then press the ENTER button.

The edited title will now have the chapter you added.



- You can make up to 99 chapters in a title and 254 chapters in a disc.
- The edited chapters are shown on existing DVD players only after performing the Edit Compatible function. (See page 72)
- If you add a chapter, the title is divided at that point; If you add a chapter onto a title that has only one chapter, it creates another chapter.

Deleting a chapter

- **4.** Select a chapter you want to delete using the playback related buttons.
 Playback related buttons: (), , , , ,).
- Press the ◀ ► buttons to select Delete, and then press the ENTER button.

The edited title has chapters as you deleted.



- First chapter can't be deleted.
- Delete menu is not available if there is one chapter in the selected tilte.
- When deleting a chapter, only the chapter marker is actually deleted, not the recorded video.
- Deleting a chapter can't be canceled.











Hiding a chapter

Follow steps 1 to 3 on page 63

- 4. Select a chapter you want to hide using the playback related buttons.
 Playback related buttons: (, , , , , , , , , , , , ,).
- Press the ◀ ► buttons to select Hidden, and then press the ENTER button.

The selected chapter is hidden.

• To finish the operation, select **Return** using the ◀ ▶ buttons then press the **ENTER** button.



- If there is only one chapter, it can't be hidden.
- Hidden/Show menu is not avaiable if there is no chapter in the selected title.
- The hidden chapters can not be seen on other DVD players.
- Hidden menu is changed to Show menu with a chapter playing back. You can make the hidden chapter shown by pressing the ENTER button at the Show menu.

Deleting all chapters

Follow steps 1 to 3 on page 63

- Press the

 buttons to select Delete All, and then press the ENTER button.
- Press the ◀ ► buttons to select Yes, and then press the ENTER button.



- When deleting a chapter, only the chapter marker is actually deleted, not the recorded video.
- Delete All menu is not avaiable if there is one chapter in the selected title.

Dividing a Title



Follow these instructions to divide a long title into several titles.

- Press the TITLE LIST button. The Title List screen is displayed.
 Or use the MENU button.
 - Press the MENU button.
 - Press the ▲▼ buttons to select Title List, and then press the ENTER or ► button twice.
- 2. Press the ▲ ▼ buttons to select a title you want to divide from the Title List, then press the ENTER or ▶ button.
- Press the ▲ ▼ buttons to select Divide Title, then press the ENTER or button.

The Divide Title screen is displayed.

- **4.** Select the point you want to divide using the playback related buttons, then press the **ENTER** button.
 - Playback related buttons: (🗐 , 🚭 , 🕞 , 📵 , 📵).
- 5. Press the ◀▶ buttons to select **Divide**, then press the **ENTER** button.
- Press the ◀► buttons to select Yes, then press the ENTER button.
 The selected title has been divided into two titles



■ If the section to be divided is less than 5 seconds, you will be prompted with the message "The range is too short.".

DVD-Recorder DVD-RWIVR) Scene No. 001 Start End Make Return ON MOVE @'ENTER O RETURN - J EXIT







Advanced Editing (Playlist)

Creating a Playlist





(VR mode)

Follow these instructions to create a new playlist entry from a recorded title.

- 1. With the unit in Stop mode, press the **MENU** button on the remote control.
- Press the ▲ ▼ buttons to select Playlist, and then press the ENTER or ▶ button.
- Press the ▲ ▼ buttons to select New Playlist, and then press the ENTER or ► button.

The Make Scene screen is displayed.

- 4. Press the ENTER button at the start point.
 - The image and starting point time are displayed on the Start window.
 - The yellow-colored selection bar moves to the End item.
 - Select the starting point of the section from which you want to create a new scene using the playback related buttons

((**1**),

- 5. Press the ENTER button at the end point.
 - The image and end point time are displayed on the **End** window.
 - The yellow-colored selection bar moves to the **Make** item.
- To make a new playlist -
- 6. Press the ◀ ► buttons to select Make, and then press the ENTER button. A new Scene will be added to the current Playlist. A new Make Scene screen is displayed.

Repeat the above steps 4~6 to create further scenes.



- If you want to make a new playlist, go to **MENU** → new playlist.
- You can check and see all the scenes on the Edit Playlist screen.
- To return to the Edit Playlist menu -
- Press the ◀ ▶ buttons to select Return, and then press the ENTER button.
 The Edit Playlist screen is displayed.



- You can create up to 99 playlist entries.
- Depending on the disc type, the displayed screen may look slightly different.
- A disc that is recorded on this unit cannot be displayed playlist menu if EZ REC MODE set to 'On'.

Playing Entries in the Playlist





(VR mode)

Follow these instructions to play the playlist entries.

- With the unit in stop mode, press the PLAYLIST button. The Edit Playlist screen is displayed.
- Press the ▲ ▼ buttons to select the title you want to edit from the Playlist, and then press the ENTER or ► button.
- Press the ▲ ▼ buttons to select Play, and then select the ENTER button.
 The playlist entries will be played.
- **4.** Press the **STOP(**) button to stop playing. The screen returns to the Edit Playlist screen.









Renaming a Playlist Entry





Follow these instructions to rename a playlist entry, i.e. to edit the title of a playlist entry.

- 1. With the unit in stop mode, press the **PLAY LIST** button. The Edit Playlist screen is displayed.
- Press the ▲ ▼ buttons to select the title you want to edit from the Playlist, and then press the ENTER or ► button.
- Press the ▲ ▼ buttons to select Rename, and then press the ENTER button.
- Enter the desired characters using the ▲ ▼ ◀ ▶ buttons.
 - Back Space: Deletes the character before the cursor.
 - Space: Enters a blank and moves the cursor one forward (to the right).
 - Delete: Deletes the character at the cursor position.
 - Clear: Deletes all the character inputs.
 - Save: Registers the character inputs.
 - The maximum number of characters that can be entered is 31. All 31 characters can be displayed by pressing the INFO button twice.
- Press the ▲ ▼ ◀ ▶ buttons to select Save, and then press the ENTER button.

The changed title name is displayed on the title item of the selected playlist entry.

Editing a Scene for the Playlist





(VR mode)

Follow these instructions to edit scenes for a playlist

- With the unit in stop mode, press the PLAY LIST button.
 The Edit Playlist screen is displayed.
- 2. Press the ▲ ▼ buttons to select the title you want to edit from the Playlist, and then press the ENTER or ▶ button.
- Press the ▲ ▼ buttons to select Edit Scene, and then press the ENTER button.

The Edit Scene screen is displayed.

Playing a Selected Scene

 Press the ▲ ▼ ◀ ▶ buttons to select the scene you want to play, and then press the ENTER button.

The playlist entry to be played is selected.

5. Press the ENTER button.

The selected scene is played.

• To stop scene play, press the STOP(•) button.













Modifying a Scene (Replacing a Scene)

Follow steps 1 to 3 of Editing a Scene for the Playlist on page 66.

- Press the ▲ ▼ ◀ ▶ buttons to select the scene you want to modify, and then press the ENTER button.
- Press the ▲ ▼ buttons to select Modify, and then press the ENTER button.
- **6.** Press the **ENTER** button at the start point of the scene.
 - The image and starting point time are displayed on the Start window.
 - Select the starting or ending point of the section you want to modify using the playback related buttons (②, ⊙, ⊙, ⊙, ⊙, ⊙, ⊙, ⊙, ⊙).
- 7. Press the ENTER button at the end point of the scene.
 - The image and ending point time are displayed on the End window.
- Press the ◀ ► buttons to select Change, and then press the ENTER button
 - The scene you want to modify is changed with the selected section.

Moving a Scene (Changing the Position of a Scene)

Follow steps 1 to 3 of Editing a Scene for the Playlist on page 66.

- Press the ▲ ▼ ◀ ▶ buttons to select the scene you want to move (change the position), and then press the ENTER button.
- 5. Press the ▲ ▼ buttons to select Move, then press the ENTER button.
 A yellow selection window is displayed on the scene to be moved.
- **6.** Press the ▲ ▼ ◀ ▶ buttons to select the position to which you want to move the selected scene, and then select the **ENTER** button.
 - The selected scene is moved to the selected position.



Depending on the disc type, the displayed screen may look slightly different.













Adding a Scene

Follow steps 1 to 3 of Editing a Scene for the Playlist on page 66.

- 4. Press the ▲ ▼ ◀ ▶ buttons to select the scene that will have a new scene inserted before it, and then press the ENTER button. A yellow selection window is displayed on the scene to be added as the new scene.
- 5. Press the ▲ ▼ buttons to select Add, then press the ENTER button.
- **6.** Press the **ENTER** button at the starting point of the scene.
 - The image and starting point time are displayed on the Start window.
 - Select the end point of the section where you want to add the new scene using the playback related buttons ($\textcircled{\bullet}$, $\textcircled{\circ}$, $\textcircled{\circ}$, $\textcircled{\circ}$, $\textcircled{\circ}$, $\textcircled{\circ}$, $\textcircled{\circ}$).
- 7. Press the ENTER button at the end point of the scene.
 - The image and end point time are displayed in the **End** window.
- Press the ◀ ► buttons to select Add, and then press the ENTER button
 - The section you want to add is inserted prior to the scene selected in step 4.

Deleting a Scene

Follow steps 1 to 3 of Editing a Scene for the Playlist on page 66.

- Press the ▲▼ ◀ ► buttons to select the scene you want to delete, and then press the ENTER button.
- Press the ▲ ▼ buttons to select Delete, and then press the ENTER button.











Copying a Playlist Entry to the Playlist

- Press the PLAY LIST button.
 The Edit Playlist screen is displayed.
- 2. Press the ▲ ▼ buttons to select the title you want to copy to the Playlist, and then press the ENTER or ▶ button.
- Press the ▲ ▼ buttons to select Copy, and then press the ENTER button

Playlist that has been selected will be copied.



■ The playlist can contain up to 99 playlist entries (titles).

Deleting a Playlist Entry from the Playlist

- With the unit in Stop mode, press the PLAY LIST button. The Edit Playlist screen is displayed.
- Press the ▲ ▼ buttons to select the title you want to edit from the Playlist, and then press the ENTER or ► button.
- 3. Press the ▲ ▼ buttons to select **Delete**, and then press the **ENTER** button.
- 4. Press the ◀ ► buttons to select Yes, and then press the ENTER button. You automatically returned to the Edit Playlist screen after the deletion operation has finished.

Disc Manager

Editing the Disc Name











Follow these instructions to give a name to a disc.

- 1. With the unit in Stop mode, press the **MENU** button on the remote control.
- Press the ▲ ▼ buttons to select Disc Manager, then press the ENTER or ► button.
- Press the ▲▼ buttons to select Disc Name, then press the ENTER or ▶ button.

The Rename screen is displayed.

- **4.** Enter the desired characters using the ▲ ▼ ◀ ▶ buttons.
 - Back Space : Deletes the character before the cursor.
 - Space : Enters a blank and moves the cursor one forward (to the right).
 - **Delete**: Deletes the character at the cursor position.
 - Clear: Deletes all the character inputs.
 - Save : Registers the character inputs.
 - The maximum number of characters that can be entered is 31. All 31 characters can be displayed by pressing the INFO button twice.
- Press the ▲ ▼ ◀ ▶ buttons to select Save, and then press the ENTER button.
 A disc name is given to the disc.



- You may need to disable disc protection before beginning editing. (see page 70.)
- Depending on the kind of disc, the displayed screen may be different.



Disc Protection







Disc Protection allows you to protect your discs from being formatted or deleted due to unintended operations

- 1. With the unit in Stop mode, press the **MENU** button on the remote control.
- Press the ▲ ▼ buttons to select Disc Manager, and then press the ENTER or ► button.
- Press the ▲ ▼ buttons to select Disc Protection, then press the ENTER or ► button.
- **4.** Press the ▲ ▼ buttons to select **Protected**, then press the **ENTER** button.

Formatting a Disc







Use these instructions to format a disc. Disable disc protection before formatting.

- 1. With the unit in Stop mode, press the **MENU** button on the remote control.
- Press the ▲ ▼ buttons to select Disc Manager, and then press the ENTER or ► button.
- Press the ▲ ▼ buttons to select Disc Format, and then press the ENTER or ► button.

DVD-RAM/+RW

- You will be prompted with the confirmation message "Do you want to format disc?".

DVD-RW

- You will be prompted with the confirmation message "Choose the recording format for DVD-RW"
- - You will be prompted again with the message "All data will be deleted.
 Do you want to continue?"
- Press the ◀ ► buttons to select Yes, and then press the ENTER button.

The disc is formatted.

DVD-VR and DVD-V modes are compatible with the following disc types.

	DVD-VR	DVD-V
DISC	DVD-RAM	DVD-RW
	DVD-RW	DVD-R



■ Menu items may differ depending on the disc type.

DVD-RAM/+RW



DVD-RW





Finalizing a Disc







After you record titles onto a DVD-RW/DVD-R disc with your DVD recorder, it needs to be finalized before it can be played back on external devices.

- 1. With the unit in Stop mode, press the MENU button on the remote control.
- Press the ▲ ▼ buttons to select Disc Manager, and then press the ENTER or ► button.
- Press the ▲ ▼buttons to select Disc Finalize, and then press the ENTER or ▶ button.

You will be prompted with the message "Do you want to finalize disc?".

- 4. Press the ◀ ► buttons to select Yes, then press the ENTER button. You will be prompted again with the message "Disc will be finalized. Do you want to continue?".
- Press the ◀ ► buttons to select Yes, and then press the ENTER button.
 The disc is finalized.



- Once a disc is finalized, you cannot delete entries from the record list.
- Once a DVD±R/DVD-RW (video mode)disc is finalized, it is playable in a standard DVD player.
- Depending on disc type, the displayed screen may appear slightly different.
- Finalizing time may be different depending on the amount of data recorded on the disc.
- Data on the disc will be damaged if the recorder is powered off during finalizing process.
- You can finalize automatically using EZ REC MODE. (See page 46)

Unfinalizing a Disc (V/VR mode)



- 1. With the unit in Stop mode, press the MENU button on the remote control.
- Press the ▲ ▼ buttons to select Disc Manager, and then press the ENTER or ► button.
- Press the ▲ ▼ button to select Disc Unfinalize, and then press the ENTER or ► button.

You will be prompted with the message "Do you want to unfinalize disc?".

- 4. Press the ◀ ► buttons to select Yes, then press the ENTER button. You will be prompted again with the message "Disc will be unfinalized. Do you want to continue?".
- Press the ◀ ► buttons to select Yes, and then press the ENTER button. The disc is unfinalized.



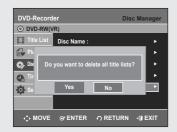
■ A DVD-RW can be finalized or unfinalized in Video mode.

	Finalize	Unfinalize
Mark	DVD-Video(RW)	DVD-RW(V)
Operation	Same as DVD-Video	Additional recording, protection and deletion are possible.

■ A DVD-RW can be finalized or unfinalized in VR mode.

	Finalize	Unfinalize
Mark	DVD-RW(VR:F)	DVD-RW(VR)
Operation	Additional recording, deletion, editing, and protection are impossible.	Additional recording, deletion, editing, and protection are possible.





Delete All Title Lists









The disc protection should be disabled first.

- With the unit in Stop mode, press the MENU button on the remote control.
- Press the ▲ ▼ buttons to select Disc Manager, and then press the ENTER or ► button.
- Press the ▲ ▼ buttons to select Delete All Title Lists, and then press the ENTER or ► button.
 - When Protected Entry exists: The Delete All Title List function will not operate. If you want to delete a protected title, disable Protection for it on the Lock item. (See page 61)

All title lists are deleted.



Edit Compatible



For DVD+RW discs, this function needs to be performed in order to view edited chapters or titles on a standard DVD player.

- With the unit in Stop mode, press the MENU button on the remote control.
- Press the ▲ ▼ buttons to select Disc Manager, and then press the ENTER or ► button.
- Press the ▲ ▼ buttons to select Edit Compatible, and then press the ENTER or ► button.

The Edit Compatible process will start.

After performing **Edit Compatible**, you can move to the title menu of the disc by pressing the **Title MENU** button.

Additional Information

Troubleshooting

If your product malfunctions, go through the checkpoints below before contacting a Samsung authorized service center.

Power

The input is displayed for a while when the power is turned on.

Checkpoint 1

The DVD recorder requires some time to initialize and the input will be displayed for approx. 10 seconds after it is turned on.

Recording

Cannot record TV programs.

Checkpoint 1

Check whether the power cord is securely plugged into the power outlet.

Checkpoint 2

Check the free space on your DVD-RAM/DVD±RW/DVD±R discs.

I pressed the REC button but there is no response.

Checkpoint 1

Recording is possible for DVD-RAM/DVD±RW/DVD±R discs only. If a program is copy protected, it cannot be recorded.

Playback

Cannot play the disc.

Checkpoint 1

Check whether the disc is inserted correctly with the label facing up.

Checkpoint 2

Check the regional code of the DVD disc.

Checkpoint 3

This DVD recorder cannot play some types of discs. (See pages 5, 48.)

Checkpoint 1

You cannot use this operation or function due to one of the following reasons:

- (1) Your DVD disc restricts it.
- (2) Your DVD disc does not support this feature (for example: angles)
- (3) The feature is not available at the moment.
- (4) You've requested a title, chapter, or scan time that is out of range.

Play mode settings are different from the settings configured in the Settings menu.

Checkpoint 1

The disc does not support all selected functions. In this case, some settings configured in the settings menu may not work properly.

Cannot change the aspect ratio.

Checkpoint 1

The aspect ratio is fixed for DVD discs. (See page 33.)

The angle operation does not work while playing a DVD disc.

Checkpoint 1

The angle operation is available only when the disc contains images captured from different angles.

The selected audio and/or subtitle language is not played.

Checkpoint 1

Audio and subtitle languages are discspecific.

Only the sound and subtitle languages contained on the DVD disc are available and displayed in the disc menu.

Video

The disc revolves, but no image or bad quality images are displayed.

Checkpoint 1

Check whether there is damage to or any foreign material on your disc.

Checkpoint 2

Some low quality discs may not play properly.

Checkpoint 3

If scenes change from dark to bright suddenly, the screen may shake vertically temporarily, but this is not a default of the unit.

Additional Information

Sound

No sound.

Checkpoint 1

Are you watching a program in scan

If you are playing a program at a speed other than normal and fast1 speed, the sound will not be heard.

Checkpoint 2

Check the connections and settings.

Checkpoint 3

Check whether the disc is damaged. Clean the disc, if necessary.

Checkpoint 4

Check whether the disc is inserted correctly with the label facing up.

No audio output.

Checkpoint 1

Check whether you have selected the correct digital output options in the Audio Output Options menu. (See page 32.)

Timer Recording

Timer lamp flickers.

Checkpoint 1

Check if there is enough space in the disc for recording.

Checkpoint 2

Check whether the current disc is recordable or not.

Make sure to check before the start time of recording.

Timer recording does not work properly.

Checkpoint 1

Re-check the recording time and the end time settings again.

Checkpoint 2

Recording will be cancelled, if the power is disconnected due to a power failure or other similar reason, while recording.

HDMI

No HDMI output.

Checkpoint 1

Check to see that the Video output is HDMI enabled.

Checkpoint 2

Check the connection between the TV and the HDMI jack of the DVD Recorder.

Checkpoint 3

See if your TV supports this 480p/720p/ 1080i DVD Recorder.

Abnormal HDMI output screen.

Checkpoint 1

If snow noise appears on the screen, it means that the TV does not support HDCP (High-bandwidth Digital Content Protection).

HDMI output Jitter

Checkpoint 1

Check your TV system setup correctly.

Checkpoint 2

Screen Jitter may occur when the frame rate is converted from 50Hz to 60Hz for 720p/1080i HDMI (High Definition Multimedia Interface)
Output.

Checkpoint 3

Please refer to the user's manual of your TV.

Remote Control Unit

The remote control doesn't work.

Checkpoint 1

Point the remote control at the remote control sensor on your DVD recorder.

Allow for proper distance. Remove obstacles between your DVD recorder and the remote control.

Checkpoint 2

Check whether the batteries are empty.

Other

I forgot my password for parental supervision.

Checkpoint 1

Remove the disc. Press the INPUT SEL. and REC MODE buttons on the front panel of the DVD Recorder simultaneously for 5 seconds or more when the power is on. All settings including the password will revert to the factory settings. Do not use this unless absolutely necessary. (Note that this function is possible only when no disc is inserted.)

Is it possible to change a subtitle and an audio signal on a recorded disc?

Checkpoint 1

A recorded disc is played with only the subtitle and the audio signal which were selected during recording.

Other problems.

Checkpoint 1

Read the table of contents and then find and read the section describing your problem, and follow the instructions given.

Checkpoint 2

Turn your DVD recorder off and on.

Checkpoint 3

If the problem still persists, contact a nearby Samsung service center.

Cable Box/Satellite Receiver Brand Code Table

Cable box brand

Code number
0033
0003, 0011, 0017, 0008, 0014,
0007, 0001, 0013, 0206, 0047,
0237, 0033
0003, 0013, 0047, 0001, 0011,
0017, 0014, 0206, 0007
1102, 0237
0237
0237, 1102
0015
0315, 0153
0008, 0277, 0144, 0056
0060
0899
0207, 0022
0211, 0111
0770
0014, 0011, 0003, 0476
0153, 0022, 0207, 0039, 0797, 0237, 0260
,
1080
1269
0267
0276
0056, 0022
0014
0641
0899
0303
0022
0003
0641
0769, 0058
0056
0022, 0039
0022
0153, 0618, 0008, 0315
0017
0153, 0315, 0078, 0242
0883
0883, 1247
0031, 0025
0233, 0232
0274
0060, 0040
0040, 0060
0019
0883
0015, 0242
0008
0008, 0877, 0477, 0277, 1877
0035
1476,1897
0637
0476
0637
0060, 0028
1,

Cable box brand	Code number
Eastern	0002, 0274, 0418
Electricord	0002, 0274, 0410
Emerson	
Everquest	0797, 0303, 0015, 0014 0040, 0015
Focus	0400
Fosqate	0276
Fujitsu	0246
Funai	
FutureVision	0248, 0019 0649
Garrard	0153
	0764
Gateway GC Electronics	0207, 0056, 0330, 0016, 0040,
GC Electionics	0077, 0030
GE	0232, 0233, 0144, 0021
Gemini	0015, 0070, 0057, 0242, 0014,
Cermin	0797, 0013, 0400
General Instrument	0476,0011,0014,0098,0810,
Contra motiument	0024,0003,0015,0276,1376,1476
GHZ	0024,0003,0013,0276,1376,1476
Gibraltar	0003
Global	1327
GMI	0069, 0057, 0015, 0797
Glodstar	0144, 0040
Goodmind	0770, 0797
Gradiente	1136
Hamlin	0020, 0009, 0034, 0259, 0015,
Hallilli	0273, 0206
Healthway Interactive	0058, 1020, 1015, 0769
Hitachi	0011, 0154, 0009, 0008, 0003,
Tillacili	0033, 0014, 0255
Houston Tracker	0011
Hwalin	0303
Hytex	0007
IBM	0670
IEEC	1018
Interbuy	0274
Jasco	0315, 0153, 0015
Jebsee	0014, 0400
Jerrold	0003, 0014, 0276, 0011, 0012,
ocirola	0020, 0024, 0015, 0047, 0098,
	0476, 0031, 0029,
	0111, 0032, 0054, 0810, 0028
Kuang Yu	0024
Leon	0069, 0015
LG	0040, 0144
Linsay	0440
Macom	0033
Maestro	0812
Magnavox	0797, 0027, 0032, 0334, 0069
Millennium	0618, 0153
Memorex	0000
Mitsubishi	0003
Motorola	0476, 0276, 1476, 0810, 1376,
wotoroid	1254, 0400, 1106
Movie Time	0156, 0078, 0063, 0203
MS	0069, 0015, 1018, 0303
MultiVision	0012
	1117
Myrio	
Myrio	
Myrio NET Next Level	0274 0764, 1316, 1315, 1314

Cable box brand	Code number
Nexus	0770
Northcoast	0671, 0314
Nova Vision	0277, 0008
Novabeam	0277
Novaplex	0618, 0277, 0017, 0008
NSC	0156, 0070, 0203, 0063, 0400,
	0012, 0618, 0022, 0637, 0010,
	0044
Oak	0019, 0007, 0303, 0248, 0017
Omega	0015
Omniview	0371
Optimus	0021
Pace	0008,0237,0277,0477,0877,
	1877,0810,1376,1476
Pacific Bell	0843
Panasonic	0107, 0021, 0144, 0008, 0124,
Dth	0307, 0000, 0040
Panther	0637
Paragon	0000, 0525, 0008
Penney	0637, 0000
Philips	0025, 0031, 0290, 0027, 0030,
	0153, 0060, 0242, 0028, 0334, 0211, 0029, 0259,0307, 0652,
	0013, 0069, 0649, 0255, 0305,
Pioneer	0032, 0111, 0317
rioneei	0144, 0023, 0533, 1877, 0877, 0260, 0008, 0277, 0477
Popular Mechanics	0400
Prelude	0770
Prism	0012, 0013, 0059
Protelcon	0786
Pulsar	0000, 0040
Quasar	0000
Quest	0144, 0020
R Line	0040
RadioShack	0883, 0015, 0315, 0303, 0797
Rampage	0255
Ranger	1247
RCA	0021, 0060, 0797,0047, 1256,
	0843
Realistic	0207, 0153
Recoton	0153, 0400
Regal	0259, 0020, 0273, 0279, 0276
Regency	0002, 0020, 0682
Rembrandt	0070, 0153, 0040, 0022, 0011
RK	0304, 0479
Runco	0000
Samsung	0040, 0144, 0023, 0003, 0070,
-	0000, 1898
Sasktel	1737
Scientific Atlanta	0008, 0277, 0017, 0006, 0237,
	0025, 0477, 0207, 0877, 0003,
	0012, 0000, 0021, 1877
Seam	0510
Sears	0510
Sejin	1265
Siemens	0246
Sigma	0019
Signal	0040, 0015, 0011, 0035
Signature	0011
SkyCable	0112
Skygiant	1091
SL Marx	0040
	1006, 1506, 1606
Sony	
Sony Spectradyne	
Spectradyne	0769, 0058 0058
	0769, 0058

Cable box brand	Code number
Standard Components	0203, 0096, 0155
Starcom	0003, 0015, 0047, 0014, 0098,
	0305
Stargate	0015, 0040, 0770, 0865, 0797,
	0305, 0014
Starquest	0015
StarSight	0542, 0422
Stealth	0274
Stellar One	0807
Storm	1018, 0637
Suena Madritel	1230
Supercable	0276
Supermax	0883
Sylvania	0001
Tandy	0258
Tatung	0097
Teac	1018
Technics	0029
Teknika	0146
Teleavia	0040
TeleCaption	0221
Teleview	0063, 0040
Texscan	0001, 0096, 0010
TFC	0310
Thomson	1256
Timeless	0418, 0274, 0040
Tocom	0012, 0013, 0029, 0019, 0059,
_	0017
Torx	0003
Toshiba	0000
Trans PX	0303, 0276, 0153, 0315
Trinity	1248
Tristar TS	0883
Tusa	0255, 0024, 1018, 0003, 0303 Tusa
TV COMM	0035, 0019
TV Guide	1476
TV86	0063, 0040
Uniden	0225, 0022
Unika	0207, 0153, 0022
United Artists	0007
United Cable	0007
Universal	0191, 0078, 0207, 0056, 0022,
Oniversal	0039, 0153, 0077, 0322, 0315
US Electronics	0276, 0008, 0003, 0017
V2	0883
Verizon	0246
Video way	0250, 0000
Video Works	0124
Vidtech	0244
Viewmaster	0883, 0770
Viewstar	0258, 0289, 0060, 0063, 0211,
	0618, 01530027, 0111, 0030, 0121
Vision	0883
Visionetics	1264
Vortex View	0883
WaveMaster	0565
Wiso	0078
Zenith	0000, 0525, 0054, 0017, 0039,
	0153, 0060, 0315, 0191, 0899
Zenitek	0400
	•

Satellite receiver brand

Satellite receiver brand	Code number
AlphaStar	0772
Atlantic Telephone	1333
Bell ExpressVu	0775
Century	0856
Chaparral	0216
Crossdigital	1109
DirecTV	1887, 0749, 0566, 0392, 1749,
	0099, 1109, 1076, 1442, 1856,
	0247, 1142, 1639, 0724, 0639,
Dish Network System	0775, 1005, 1170
Dishpro	0775, 1005
Echostar	0775, 1170, 1005
Expressvu	0775
Galaxis	0863
GE	0566
General Instrument	0361, 0869, 0627
GOI	0775
Gradiente	0856
Hitachi	0819, 0749
Houston Tracker	0775
HTS	0775
Hughes Network Systems	0749, 1749, 1442, 1142
Humax	1176, 1359, 1048, 0863, 0283
Innova	0099
Jerrold	0361, 0036, 0627
JVC	0775, 1170
Magnavox	0722, 0724
McIntosh	0869
Memorex	0724
Mitsubishi	0749
Motorola	0869
NEC	1270, 0496, 0499, 0507, 0508
Netsat	0099
Next Level	0869
Optimus	0724
Panasonic	0247, 0701
Paysat	0724
Philips	1076, 1142, 0724, 0722, 0749,
Primestar	1442, 1749, 0856, 0775, 0099 0361, 0627, 0869
Proscan QNS	0392, 0566
	1367
RadioShack	0869
RadioShack	0566, 0392, 0143, 0855
Samsung	1109, 1276
Sky	0856, 0099, 1856
Sony	0639, 1639
Star Choice	0869
Star Trak	0869, 0772
Thomson	0566, 0392
Tivo	1142, 1442
Toshiba	0790, 0749, 1749, 1285
UEC	1333, 1358
Uniden	0724, 0722
Video Cipher II Plus	0361
Zenith	0856, 1856
Zenith	0856, 1856

Error Message Solutions

Before contacting a Samsung authorized service center, perform the following simple checks.

Error Message	Solution / Explanation		
You cannot record a copy protected movie.	◆ You can't record the video since it is protected by copyright.		
You cannot record. This disc is protected.			
This disc cannot be formatted (the disc is protected).			
This disc cannot be renamed (the disc is protected).	◆ The disc you are using is protected. To record on this disc or use this function, disable the disc protection function. Refer to page 70.		
The disc cannot be finalized (the disc is protected).			
This [Menu] is not available (the disc is protected).			
The disc cannot be played, Please check the regional code of the disc.	◆ The disc does not match the regional code for your area and cannot be played on this device.		
This disc cannot be formatted. Please check the disc.			
You could not format the disc because of error detection.			
You could not finalize the disc because of error detection.	◆ Make sure there are no scratches or dirt on the disc.		
You could not unfinalize the disc because of error detection.			
The disc cannot be played, Please check the TV system.	◆ PAL format discs cannot be played on this unit.		
The disc can be neither played nor recorded.	 Make sure there are no scratches or dirt on the disc. Disc may have a malfunction caused from a power outage during recording (Only DVD+R Disc). 		
The disc cannot be played, Please check the disc.			
If the disc has invalid information, no more titles can be recorded. Please format the disc beforehand.	♦ You can't use the disc because it contains errors from previous recordings Use the disc after formatting.		

Error Message Solutions

Error Message	Solution / Explanation	
Error is detected on the disc.	 You can't use the disc because it contains errors from previous recordings. Use the disc after formatting. 	
System error is found. Please try it again after turning off the power.	When operating, errors happen. Turn off the device. (To turn off, press and hold the power button on the front of the device for 10 seconds.) After turning off, press the Open button and remove the disc from the device.	
The DV device is not connected.	◆ Make sure the DV device is connected properly to the DV connection Jack. If it is connected properly, turn it off and on once again.	

If you are unable to solve the problem after reading the above instructions, note:

- ◆ The model and serial number on the rear of your DVD Recorder
- ◆ The warranty information
- ◆ A clear description of the problem

Then contact your nearest SAMSUNG authorized service center. Call 1-800-SAMSUNG for a center near you.

Additional Information

Specifications

	Power requirements	120V AC, 60Hz	
General	Power consumption	19 Watts	
	Weight	5.1 lb	
General	Dimensions	16.9 in(W) x 8.5 in(D) x 1.9 in(H)	
	Operating temp.	+41°F to +95°F	
	Other conditions	Keep level when operating. Less than 75% operating humidity	
	Video (1,2)	1.0 V p-p at 75Ω load, sync negative	
Input		S-Video input (Y: 1.0Vp-p, C: 0.286Vp-p at 75Ω load)	
IIIput	Audio(1,2)	Max.Audio Input Level : 2Vrms	
	DV Input	IEEE 1394(4p) compatible jack	
	Audio	Analog output jacks 1, 2	
		Optical/Coaxial digital audio output	
		Full scale Analog output level : 2Vrms	
Output		Video output jack	
o alpat		S-Video output (Y:1.0Vp-p, C:0.286Vp-p at 75Ω load)	
	Video	Component output (Y: 1.0Vp-p, Pb: 0.70Vp-p, Pr: 0.70Vp-p at 75Ω load)	
		HDMI output (480p, 720p, 1080i)	
	Picture Compression format	MPEG-II	
	Audio Compression format	Dolby Digital 2ch/256kbps	
Recording	Recording Quality	XP (about 8 Mbps), SP (about 4 Mbps), LP (about 2 Mbps), EP (about 1.2 Mbps or about 0.8 Mbps)	
	Audio Frequency Response	20 Hz ~ 20 kHz	

Audio Output For DVD discs, audio signals recorded at 96kHz sampling frequency are converted and output at 48kHz.

Disc Type	DVD	AUDIO CD(CDDA)		
Analog Audio Output	48 / 96kHz	44.1kHz		
Digital Audio Output	48kHz	44.1kHz		

Warranty

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by Samsung Electronics America, Inc. (SAMSUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of:

One (1) Year Parts / Ninety (90) days Labor (90 days Parts and Labor for Commercial Use)

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States. To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. Warranty service can only be performed by a SAMSUNG authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center. Transportation of the product to and from the service center is the responsibility of the purchaser.

SAMSUNG will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

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